Getting Started Guide

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Finding Answers to Commonly Asked Questions

In this *Getting Started Guide,* you can find answers to questions about the following topics:

- Turning on the PC, page 5
- Registering the PC, page 7
- Transferring information to your new PC, page 7
- Using desktop icons, page 8
- Customising special buttons on the keyboard, page 17
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NOTE: This guide contains details on options that may not be included with your PC. Your PC may look different from the illustrations in this guide. The monitor and the speakers may be sold separately. Speakers may be included with the monitor (select models only).

Setting Up Your PC

WARNING: Please read "Safety Information" in the *Warranty and Support Guide* before installing and connecting your PC to the electrical power system.

Putting Your PC Together

Follow the steps on the quick setup poster to set up your PC.

Look in the PC box for printed details or updates regarding your model PC.

When placing your PC, consider an ergonomic arrangement of the PC and your work area to maintain your comfort and productivity. Refer to "Setting up for safety and comfort" on page 3.

WARNING: The power supply is pre-set for the country/region in which you purchased your PC. If you move, please check the voltage requirements before plugging your PC into an AC power socket.

Setting up for safety and comfort

After assembling your PC, but before you begin using it, arrange the PC and your work area to maintain your comfort and productivity. Refer to the Safety & Comfort Guide for important ergonomic information.

WARNING: To reduce the risk of serious injury, read the Safety & Comfort Guide. It describes proper workstation setup, posture and health and work habits for computer users. It also provides important electrical and mechanical safety information.

To view the Safety & Comfort Guide:

- Click **Start**, choose **All Programs**, choose **PC Help & Tools**, and then click **Safety & Comfort Guide**.

Or

- Type
  http://www.hp.com/ergo/
  into your Web browser address box, and then press Enter on the keyboard.

Connecting to the PC

Connect your main hardware devices like the monitor, keyboard and mouse at the back of the PC. Other peripheral devices like a printer, scanner, camera or other equipment also plug into connectors on the back of your computer. Some PC models also have connectors on the front of the PC.

Your PC features and connector positions may vary.

Connector symbol	Description
	Mouse (PS/2)
	Keyboard (PS/2)
	Universal Serial Bus (USB) for mouse, keyboard, digital cameras or other devices with USB connectors
	Printer (parallel)
	Monitor
serial	Serial port for some digital cameras or other serial devices
OUT	Audio Line Out (powered speakers)
IN	Audio Line In
	Headphones
	Microphone
	FireWire® (IEEE 1394) for video cameras or other devices with very fast transfer rates

Turning On Your PC for the First Time

After you have completed the steps on the quick setup poster, you are ready to turn on your PC.

1. Press the Power button on the monitor.
2. Press the On button on the front of the PC.
3. Turn on the speakers, if they are present.
4. Click an option to select your language (if applicable for your model). Click **OK** and then confirm your selection by clicking **Yes**. Wait until the PC makes preparations. (It may take up to 30 minutes to set up the language on the PC.)
5. Set up Microsoft® Windows® by following the onscreen instructions.
6. Double-click the large **Internet Access** icon on your desktop, if it is present. Wait until the PC displays the Easy Internet Sign-up window, and then follow the onscreen instructions.
7. Register your PC; see "Registering Your PC" on page 7.

Setting Up and Connecting to Your Internet Account

Before you can connect to the Internet, you must sign up with an Internet Service Provider (ISP). HP has made arrangements with leading ISPs to help you sign up for Internet service using Easy Internet Sign-up (available on select models only).

NOTE: However, you may choose any other ISP of your choice, or transfer your existing ISP account to this PC.

Use Easy Internet Sign-up to sign up for a new or an existing ISP account. The software programs for available ISPs are part of your PC. If you decide to subscribe to high-speed broadband (cable or DSL), contact your ISP for any specific software and hardware you may need.

1. Make sure the modem or other Internet access cable is connected.

   NOTE: Easy Internet Sign-up finds and obtains updated information about services by connecting to the Internet. The PC uses either the PC modem connected to an active telephone service line or an active broadband (cable or DSL) connection.

   ---

2. Choose an ISP using Easy Internet Sign-up. To open Easy Internet Sign-up:
   a. Double-click the **Easy Internet Sign-up** icon on the desktop.

   Or

   Click **Start** on the taskbar, choose **All Programs**, choose **Online Services**, and then click **Easy Internet Sign-up**.

   b. Follow the onscreen instructions.

NOTE: The folder called *Online Services* includes icons for accessing various online services, but they may not be present in all countries/regions.

3 Connect to your ISP and the Internet.

Use one of these methods:

- Double-click the ISP-provided icon on the desktop.

Or

- Press the Connect (or Internet) button on the keyboard (select models only).

Or

- If your PC is always connected to your ISP, open your browser program, such as Internet Explorer: Click **Start**, choose **All Programs**, choose **Online Services**, and click **Internet Explorer**.

NOTE: If you are using MSN or AOL, and have questions, contact the ISP directly.

Installing Software and Hardware Devices

After you turn on the PC the first time, you can install any software programs that came on CDs or DVDs included in the PC box (select models only).

You may wish to install additional software programs or hardware devices on your PC. Before installation, make a restore point using the Microsoft System Restore program; refer to "Recovering from Software Problems" in the *Warranty and Support Guide*. Restart the PC after installation.

Choose software that is compatible with your PC — check the operating system, memory, and other requirements listed for the new software for compatibility with your PC.

NOTE: Only use original licensed software. Installing copied software may be illegal or may infect your PC with a virus.

Install the new software according to the directions provided by the software manufacturer. Check the manufacturer's documentation or customer service information for help if you need it.

Using HP products

HP computers include pre-loaded software for select HP All-In-One, camera, scanner, and printer peripheral products. Pre-loaded software simplifies and speeds product setup for HP peripherals. Simply connect the HP peripheral product, turn it on, and your HP PC automatically configures it so it is ready to use.

Transferring your old PC information and files to your new PC

See the built-in Microsoft Windows Help and Support Center; search for *transfer wizard*, and select the overview article, *Files and Settings Transfer Wizard overview*. This information describes a Microsoft solution for moving your files onto your new PC.

Or, as an alternative, double-click the **PC Tune Up & Repair** icon (select models only) in the Help and Support Center, and review the products and services offered under *Backup Data*.

Making recovery discs

Now is a good time to make your recovery discs. Refer to the *Warranty and Support Guide* for instructions and more information.

Registering Your PC

Registration is quick and easy, and it offers you access to subscriptions and notifications such as:

- E-mail updates containing notifications about product enhancements, the most recent support alerts and driver updates specific to the products you own.
- The HP newsgram, our monthly online magazine packed full of product news, support tips, project ideas and much more. Visit http://subscription.support.hp.com

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NOTE: You can view your PC product number, model number and serial number, by pressing the Ctrl, Alt and S keys on the keyboard at the same time.

To register your PC:

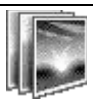
- Click the **Register with HP** icon on the desktop. When you use the desktop icon, the PC automatically fills in the PC product number, model number and serial number for you.

Or

- Go to http://register.hp.com

Using Desktop Icons

The desktop has shortcut icons that make it easy to find the things you need.

Icon	Opens	Use it to
	Help and Support (select models only)	View onscreen Help information about your PC.
	Easy Internet Sign-up	Set up a new or an existing Internet account.
	Software Repair Wizard (select models only)	Repair software problems with programs, printers, or peripherals that stop working, or resolve erratic PC behaviour; repair options include using Application or System Recovery.
	HP Image Zone Plus	Manage and protect your still photos, scanned images and video clips.
	Register with HP	Register your HP PC and all your HP products.
	HP Organise (select models only)	Organise your PC shortcuts and your favourite Internet destination links.

Using HP Organise software

HP Organise software (select models only) is a desktop tool you use to organise both your PC shortcuts and your favourite Internet destination links. You use it to organise the important things you do on the PC and the Internet, and to arrange them the way you want. HP Organise makes all your information available with just a few mouse clicks.

HP Organise looks like a window with multiple category frames. Each category has links to Internet destinations or shortcuts to software programs or files on your PC. Use the player area for viewing pictures, for listening to your MP3 music files stored on your computer, or for watching video clips. For searching, there is a search bar at the top of HP Organise where you can select the search engine you want to use.

To open HP Organise:

Double-click the desktop icon.

Or

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **HP**.
4. Click **HP Organise**.

Using PC Help & Tools

The PC Help & Tools folder (select models only) in the All Programs menu contains special utilities for PC owners. This folder also contains any onscreen guides included with your PC.

To see the items in the PC Help & Tools folder:

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Click an item to view it or use it.

NOTE: If there are no guide titles listed in PC Help & Tools, your PC has no onscreen guides.

Using the Keyboard

Your keyboard has an arrangement of standard keys, indicator lights and special buttons (select models only). Locate your keyboard among the following illustrations and read the feature list for it. Your keyboard may vary from the illustrations.

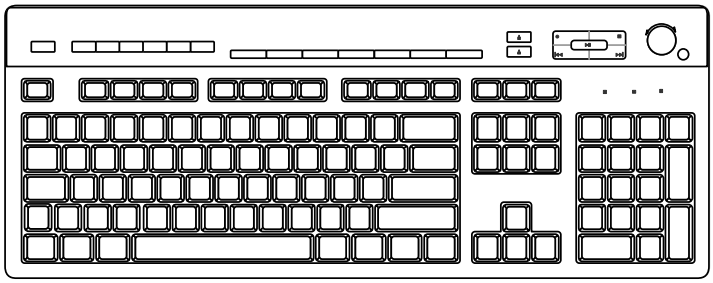
Using the Internet Keyboards

Internet keyboards may connect directly to your PC or may be wireless. (See "Using the Wireless Keyboard Set" on page 14 for a description of the wireless set.)

Some keyboards do not have the Internet buttons shown here at the top of the keyboard, and some use a different layout on the top right.

Find your keyboard among the following illustrations to read about its features.

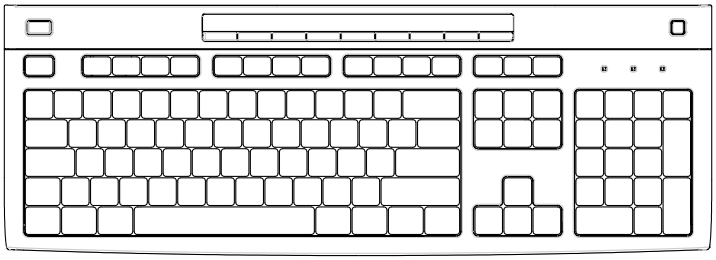
Internet keyboard 1



This keyboard enables you to:

- Adjust speaker volume.
- Connect to the Internet (if you have an established Internet account).
- Search for information on the Internet.
- Place the PC into standby mode to save power.
- Start, pause and stop playing a CD or DVD; skip to the previous or next track; record; and eject the disc tray (for two drives).
- Mute speaker sound.
- Customise the buttons to open programs, and connect to Internet Web sites.
- Get support information.
- Find a file or program on the hard disk drive.

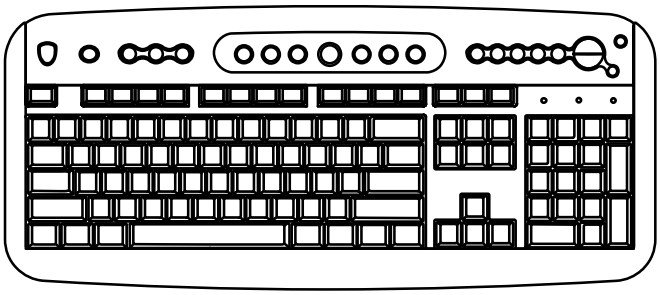
Internet keyboard 2



This keyboard enables you to:

- Mute speaker sound.
- Search for information on the Internet.
- Customise the buttons to open programs and connect to Internet Web sites.
- Find a file or program on the hard disk drive.
- Place the PC into standby mode to save power.
- Get support information.
- Connect to the Internet (if you have an established Internet account).

Internet keyboard 3



This keyboard enables you to:

- Adjust speaker volume.
- Customise the buttons to open programs and connect to Internet Web sites.
- Search for information on the Internet.
- Find a file or program on the hard disk drive.
- Start and stop playing a CD or DVD; skip to the previous or next track; and eject the disc tray (top drive only).
- Place the PC into standby mode to save power.
- Connect to the Internet (if you have an established Internet account).
- Mute speaker sound.
- Get support information.
- Print.

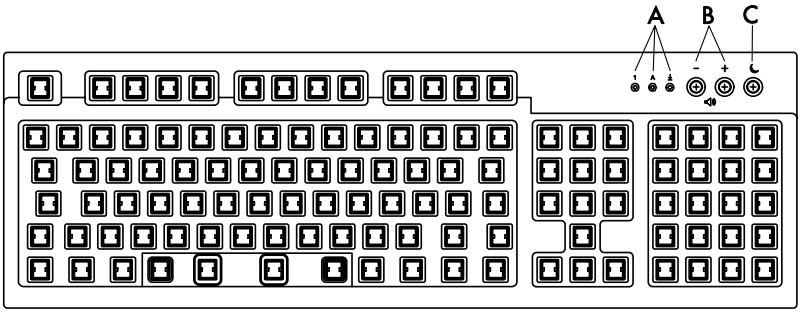
Using the Standard Keyboard

LEDs, light emitting diodes, are lights used to indicate status.

A The lights (LEDs) turn on to indicate (left to right) the number lock on, the capitals lock on, and the scroll lock on.

B The plus (+) and minus (–) buttons adjust the speaker volume.

C The moon icon button places the PC into standby mode or wakes the PC from standby mode.



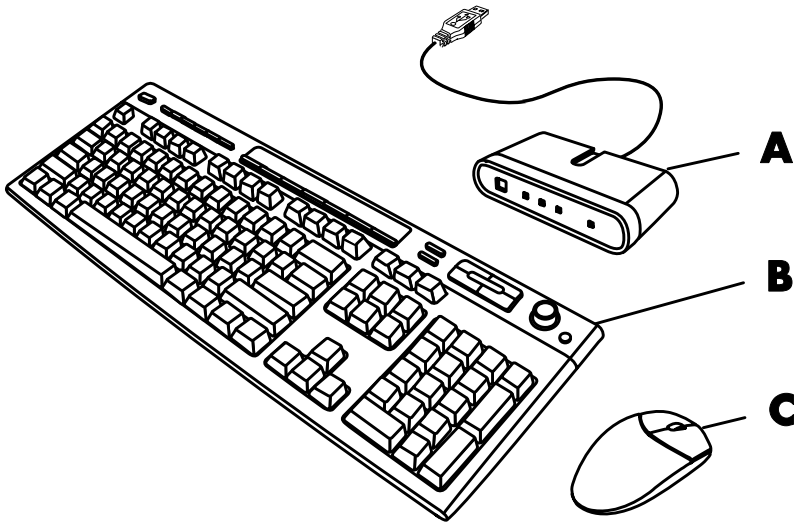
This keyboard enables you to:

- Adjust speaker volume.
- Place the PC into standby mode to save power.

Using the Wireless Keyboard Set

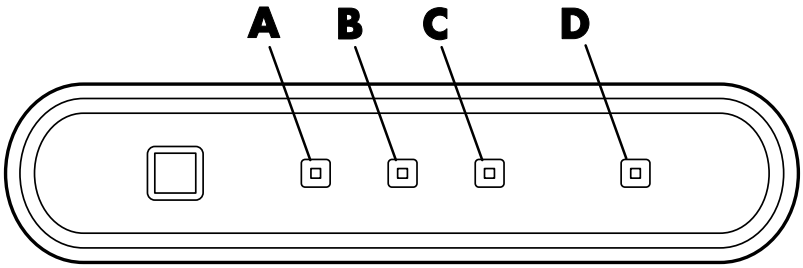
A wireless keyboard (**B**) uses a receiver/transmitter unit (**A**), instead of a connector cable, to communicate with your PC. The wireless keyboard, mouse (**C**), and receiver set is available with select models only.

A Wireless receiver
B Wireless keyboard
C Wireless mouse



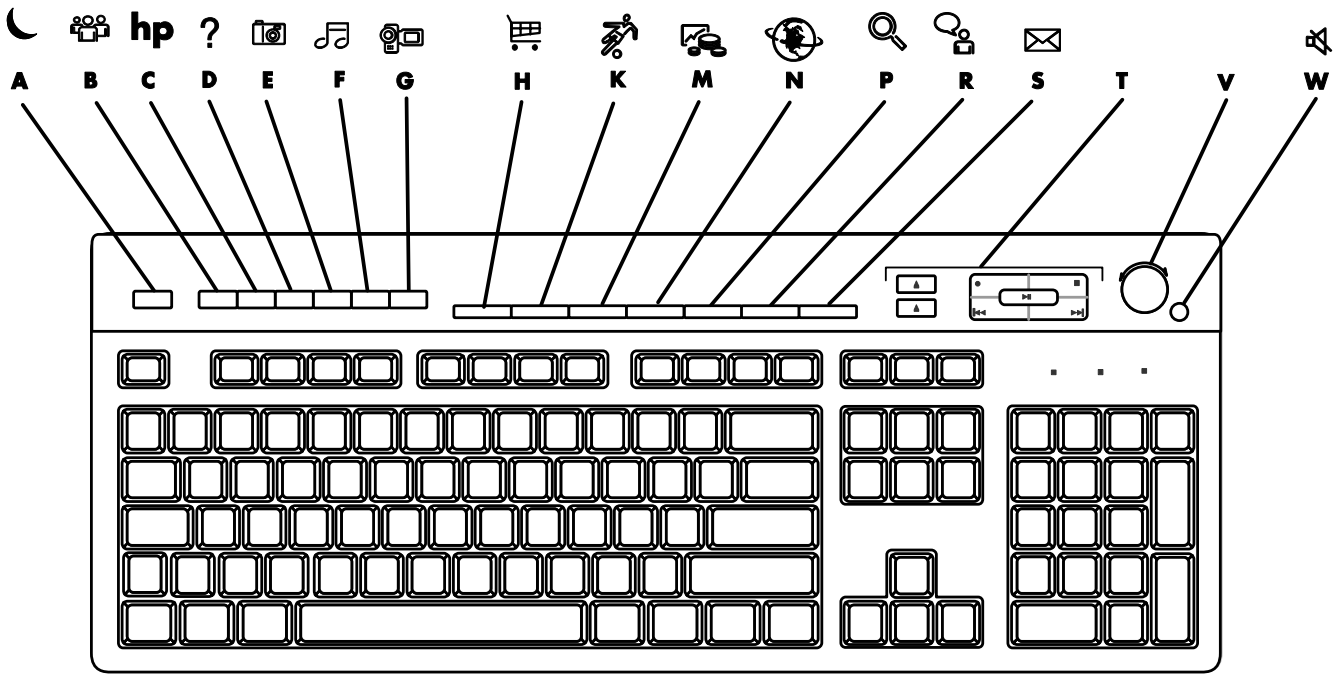
A light (**D**) on the receiver indicates receiver activity.

A Number lock on
B Capitals lock on
C Scroll lock on
D Receiver activity



Identifying Special Keyboard Buttons

There are special buttons (select models only) at the top of the keyboard. (Some models have some of these special buttons on the left side of the main keys.) These buttons operate a CD or DVD player, connect you to the Internet, or provide quick access to specific functions.



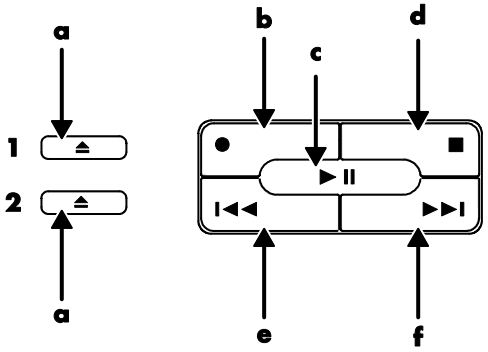
NOTE: The number, location, and labelling of buttons vary by keyboard model.

Figure key	Icon	Feature	Description
A		Standby	Puts PC into power-saving mode (screen is blank, but PC is still on). To make screen reappear, press the Esc key, or press standby again. May take 10–30 seconds before screen reappears.
B		User	Switches between the PC users.
C	hp	HP	Links to HP Web site.
D	?	Help	Opens the Help and Support Center.
E		Pictures (Photos)	Opens an imaging software program. Can be reconfigured.
F		Music	Starts iTunes or Windows Media Player. Can be reconfigured.
G		Video	Opens video software program. Can be reconfigured.

Figure key	Icon	Feature	Description
H		Shopping	Goes to popular Web sites. Can be reconfigured to open a site or software program.
K		Sports	
M		Finance	
N		Connect	
P		Search	
R		Chat	
S		E-Mail	
T	See figure following table	Media controls (CD/DVD/MP3)	Operates CD or DVD player.
V		Volume control (Volume knob or Volume Up and Volume Down buttons)	Volume knob: Increases speaker volume when turned clockwise and decreases volume when turned anticlockwise. It can be turned indefinitely, even after maximum sound has been reached. Volume Up and Down buttons: Press the Volume Up ▲ button to increase volume and the Volume Down ▼ button to decrease volume.
W		Mute	Turns speaker sound on and off.

Media control keys

- **a** Open and close disc tray(s)
- **b** Record
- **c** Play or pause
- **d** Stop
- **e** Skip to the previous track
- **f** Skip to the next track



NOTE: The number, location, and labelling of buttons vary by keyboard model.

Customising the keyboard buttons

You can customise some of the special buttons on the keyboard (select models only) to open different programs or files, or to connect to favourite Web sites:

1. Click **Start** on the taskbar.
2. Choose **Control Panel**.
3. Click **Printers and Other Hardware**, if it is present.
4. Double-click **Keyboard**.
5. On the Buttons tab, double-click the button you want to change.
6. For the Button configuration, click the **down-arrow** to the right of the list, and choose the button capability, such as *Simple web page with label*.
7. Enter a display label and the address information. For a Web page, enter the URL.
8. Click **OK**.
9. On the Buttons tab, click **Apply**.
10. Repeat steps 5 to 9 for each button you want to customise.
11. Click **OK** to finish.

NOTE: Clicking the **Restore Defaults** button on the Button tab restores all of the Internet buttons to the factory settings.

Getting Help

Recovering from Software Problems

The PC uses the operating system and installed software programs during normal operation. If your PC works improperly or stops because of the software, you may be able to repair it by restarting the PC, using System Restore, or using other methods, including the system recovery programs.

You need recovery discs (CDs or DVDs) for some repairs that use the HP Application Recovery program or the HP PC System Recovery programs. Now is a good time to make your recovery discs.

For instructions on making recovery discs, repairing and recovering your software, and more information, refer to the *Warranty and Support Guide* that came with your PC.

Using the Onscreen Help and Support Center

Information about your PC is in the onscreen Help and Support Center (select models only). Here you can find links to driver updates, access to technical support options, and information about commonly asked questions.

To open the Help and Support Center:

1. Press the Help button (select models only) on your keyboard.
   Or
   Click **Start** on the taskbar and choose **Help and Support**.
2. Click **HP Pavilion PC help**.

Using Instant Support

When you need assistance to solve a PC-related problem, use HP Instant Support (select models only). With HP Instant Support, you can run tests or submit a problem for help over the Internet. When you submit a problem, you communicate over the Internet with a Support analyst who works with you on solving the problem.

To start HP Instant Support:

1. Click **Start** on the taskbar.
2. Click **Help and Support**.
3. Click **Connect to Customer Support**.
4. Click **Start a New Request**.
5. Follow the onscreen instructions to run a test or submit a problem. (Your PC must be connected to the Internet to submit a request.)

Using Updates from HP

Updates from HP (select models only) is an Internet-based service provided by HP to bring you important information for your PC:

- Product notices
- System updates
- Tips
- Special offers for your PC

Messages arrive while you're connected to the Internet, and may display an alert or a notice on your desktop. View messages as they arrive, or read them later.

Most Support updates delivered by Updates from HP messages are also available to you through the Support Web site under the information for your PC model.

Getting messages

After you view or close a message, it will not automatically display again.

To read a previously received message, open Updates from HP:

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Choose **Updates from HP**.
5. Click **Updates from HP** again.

Updates from HP opens and lists the message titles. To read a message, double-click the message title in the window. You can close this window, and Updates from HP remains active.

Turning off messages

NOTE: You cannot receive Updates from HP messages, including important Support messages that may be critical to the operation of your PC, while the service is off.

To turn off the Updates from HP Service:

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Choose **Updates from HP**.
5. Click **Disable Updates from HP**.

   The service is turned off until you re-enable it.

Re-enabling messages

When you re-enable the Updates from HP Service, the service runs whenever you are connected to the Internet, and you automatically receive messages as they become available.

To turn on the service:

Double-click the **Re-enable Updates from HP** icon on the desktop.

Or

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Choose **PC Help & Tools**.
4. Choose **Updates from HP**.
5. Click **Re-enable Updates from HP**.

Finding Online Guides

You can find online guides and information for your PC.

To view online manuals for your PC, go to the Support Web address listed in the *Warranty and Support Guide,* and search for your product name and number. The product number is on the lower front of the PC chassis or inside the CD storage area.

NOTE: Online manuals are associated with specific PC model numbers. Some models do not have online manuals.

Finding Web Sites About Your PC

Use the Web site addresses listed in the *Warranty and Support Guide* for:

- Information about your PC.
- Your technical support needs.

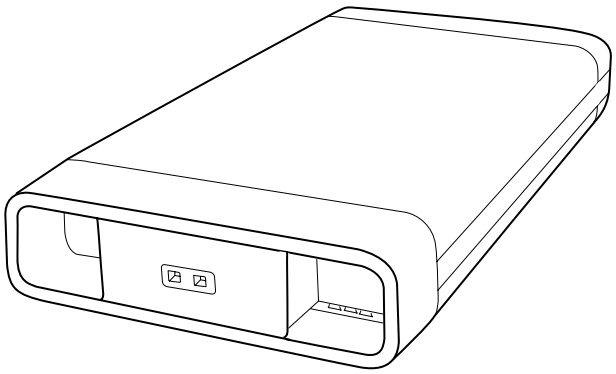
Type these Web site addresses into the address box of your Internet browser, and then press the Enter key on your keyboard.

Finding More Help

If you need additional help, see the *Warranty and Support Guide* that came with your PC.

Using the HP Personal Media Drive

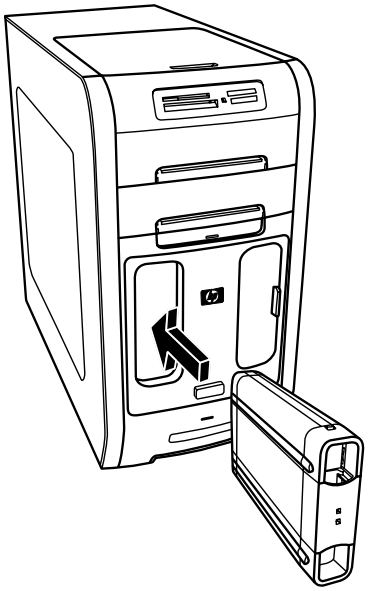
The HP Personal Media Drive (sold separately) can be used as an internal or external USB hard disk drive, designed to quickly and easily increase your storage capacity, and to transfer media files such as digital photos, music, videos and other important files. You can also use the HP Personal Media Drive to back up other drives on your PC.

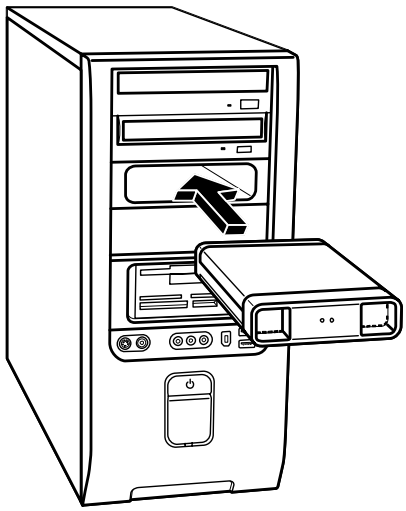


Connecting the Drive

As an external drive, the HP Personal Media Drive connects and disconnects easily from a USB 2.0 connector on the front or the back of most PCs. The drive comes with software, an external USB cable, and an external power cable and power adapter. For information about connecting and using the HP Personal Media Drive as an external drive, refer to the documentation that came with the HP Personal Media Drive.

For some HP and Compaq PCs (select models only), the HP Personal Media Drive is designed to fit inside a horizontal or vertical drive bay.





This special drive bay includes an internal USB port and power cable that connect to the drive when it is inserted.

The drive turns on when it is plugged into an active USB port. If the PC is turned on with the drive connected, the drive automatically turns on. When the USB cable for the drive is not plugged in or when the USB power from the PC is turned off, the drive automatically turns off. When the PC is in standby mode (a reduced power state), the drive remains turned on.

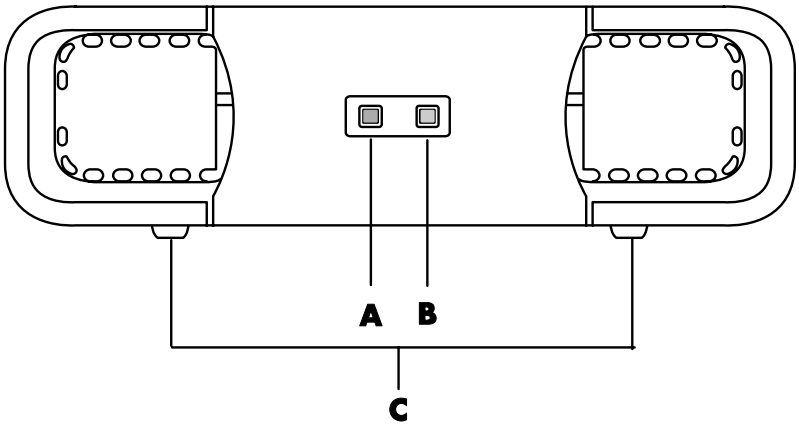
NOTE: The drive can be easily inserted and removed from the bay without turning off the PC. This feature is sometimes referred to as *warm swappable*.

WARNING: Do not move the PC with the HP Personal Media Drive inserted in the bay or connected to a USB port on the PC. This can cause damage to the drive and cause data loss.

Inserting the Drive

1. Turn on the PC.
2. Line up the ridges on the bottom of the drive with the two slots on the side or the bottom of the PC drive bay. Do not force the drive into the bay; it should slide easily into the bay.
3. Slide the drive all the way into the drive bay until the drive is firmly connected to the internal power and USB port. With the PC turned on, the power indicator (**B**) on the front of the drive is lit when the drive is inserted correctly.

A Drive activity indicator light
B Power on indicator light
C HP Personal Media Drive guide ridges



Locating the Drive and Assigning a Drive Letter

After you insert the drive into the PC, you can find the drive in My Computer. The operating system automatically assigns a letter to the drive. The assigned letter depends on the other storage devices connected to the PC.

To locate the drive:

1. Click **Start** on the taskbar.
2. Click **My Computer**.
3. Select the drive under *Hard Disk Drives*. The default name is HP Personal Media Drive.

The default volume label of this drive is *HP Personal Media Drive*. You can rename the drive in the My Computer window by right-clicking the drive, selecting **Rename**, and then typing in a new name. Rename the drive if you have more than one HP Personal Media Drive.

You can permanently assign a drive letter to avoid the letter changing when you connect and disconnect this drive and other devices. Also, it is easier for a software program to locate the files on the HP Personal Media Drive if a drive letter is assigned. Some programs may not be able to find files if the drive has a new drive letter.

It is best to always remove your drive safely to avoid errors. See "Disconnecting the Drive" on page 27.

NOTE: To avoid multiple hard disk drives using the same drive letter, when connecting and removing the drives, assign the letter Z.

To assign a drive letter:

1. Click **Start** on the taskbar.
2. Right-click **My Computer**.
3. Select **Manage** and then click **Disk Management**.
4. Right-click the **HP Personal Media Drive**.
5. Select **Change Drive Letter and Paths**.
6. Click **Change** and select a letter, and then apply the changes by clicking **OK**.

Using the Drive

To store files:

The best way to transfer files to the HP Personal Media Drive is to drag them from your local hard disk drive. This allows you to place files in specific folders. Refer to the following procedures for more detailed instructions about creating linked folders.

To play media files:

You can play all kinds of media from an HP Personal Media Drive.

1. Click **Start** on the taskbar.
2. Click **My Computer**.
3. Double-click the **HP Personal Media Drive** icon to locate your media file.
4. Double-click the file. Most media files open in Windows Media Player.

To play music files:

You can play all kinds of music files that are stored on the HP Personal Media Drive:

1. Click **Start** on the taskbar, click **My Computer**, and then double-click the **HP Personal Media Drive** icon.
2. Create a personal music folder by right-clicking the drive window and choosing **New** and then **Folder**. Type a name for your personal music folder.
3. Drag or copy your music files into this created folder.
4. Open Windows Media Player by clicking **Start**, **All Programs**, and then clicking **Windows Media Player**.

5 In the Windows Media Player window, click **Tools**, select **Options**, and then select the **Media Library** tab.

6 Click the **Monitor Folders** button.

7 Click **Add** to add a pathway to your HP Personal Media Drive.

8 Browse to locate your created music file folder on your HP Personal Media Drive, and then click **OK**.

9 Click **OK**, and then **OK** again to close the Options window. Now your music files on your HP Personal Media Drive appear in the Windows Media Player library when your drive is connected to the PC.

When you disconnect the drive, your music files may still appear in the Windows Media Player Library. To refresh your PC, open and close Windows Media Player. If that doesn't work, restart the PC.

Disconnecting the Drive

You can safely remove the drive when it is not active. When the amber activity light is blinking, the drive is active, saving or transferring data. Removing the drive while the light is blinking may cause data loss or damaged files.

To disconnect the HP Personal Media Drive safely:

1 Close all programs that may be accessing your HP Personal Media Drive. Make sure that the activity light on the drive is off.

2 Double-click the **Safely Remove Hardware** icon in the system tray (on the Start taskbar). If this icon is hidden, click the arrows on the taskbar to display it. The Safely Remove Hardware window opens.

3 Double-click **USB Mass Storage Device** to locate your HP Personal Media Drive. USB Mass Storage Device may be listed twice. One may contain a memory card reader or other mass storage drive.

4 Select the **HP Personal Media Drive**, and then click **OK**. The name of the drive may be different if you renamed it, or it may appear as Generic Volume followed by the assigned drive letter.

A *Safe to Remove Hardware* message appears in the system tray, letting you know that the device is safe to disconnect.

5 Click **Close**.

6 Disconnect the drive by removing it from the drive bay.

Working with Sound, Pictures and Video

Using Speakers

Speakers are included with the monitor (select models only) or are sold separately. Your PC supports only an active (powered) speaker system; the speaker system must have its own power cable.

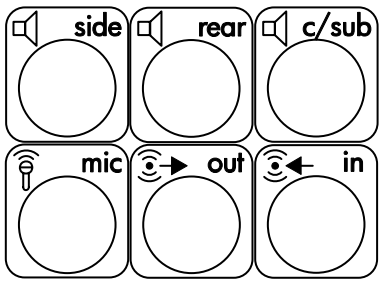
NOTE: A *stereo speaker set* is a left-right, two-channel speaker system. A *multichannel audio speaker system* is a system with more than two channels, and it may include a subwoofer. For example, 7.1 channels, referred to as an eight-speaker mode, uses two front speakers (left-right), two side speakers (left-right), two rear speakers (left-right), a centre speaker and a subwoofer.

The PC supports a variety of sound options and speaker configurations. You may set up your PC for two stereo speakers or for multichannel audio speaker systems. Connect your speaker system to the PC, and then configure the audio software for sound output. For details on connecting stereo speakers to the PC, see the quick setup poster.

NOTE: If your PC includes a sound card (select models only), refer to the documentation that came with the sound card.

- If your PC model includes three sound connectors (select models only) on the back of the PC, see "Setting up 3-connector sound" on page 30.

- If your PC model includes six sound connectors (select models only) on the back of the PC, see "Setting up 6-connector sound" on page 32.



Setting up 3-connector sound

PC models that include three sound connectors (select models only) on the back of the PC support up to six channels of sound (5.1 speaker output) and use the Multi-channel Sound Manager to configure the software settings.

Connecting the speaker system to the PC (3-connector)

The 3-connector audio speaker system uses the Audio In, Audio Out, and Mic connectors on the back or front of the PC. Refer to the quick setup poster for the location of the connectors.

1. With the speaker system off, connect the speakers and the subwoofer, if present. Refer to the speaker documentation.
2. Turn off the PC and the speakers.
3. Connect the three audio cable plugs from the speaker system to the connectors on the back of the PC. (See the following table.)

Connect speaker plugs for:				
2 Speaker Mode	**4/4.1 Speaker Mode**	**6/5.1 Speaker Mode**	**To PC connector**	**Connector icon**
Front speakers	Front speakers	Front speakers	Audio Out (lime-green)	
Not used for speakers	Rear speakers	Rear speakers	Audio In (blue)	
Not used for speakers	Not used for speakers	Centre / subwoofer speakers	Mic-1 (pink)	

4. Turn on the PC.
5. Turn on the speaker system.
6. Configure the audio output for this 3-connector multichannel speaker system by performing the following procedure.

Configuring the Multi-Channel Sound Manager (3-connector)

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Click **Multi-channel Sound Manager**. The Multi-channel Audio Configuration window opens.

NOTE: If you do not see the Speaker Configuration tab, your PC does not have the multichannel capability. However, it still has two-channel (stereo) output.

4. Click the **Speaker Configuration** tab.

5 Select the option describing the number of speakers in your system, for example, **6/5.1 speaker mode**. You can click the **Speaker Test** tab, and then click a speaker icon to test it.

6 Click **OK**.

To use a microphone for recording, see "Using the microphone with the Multi-Channel Sound Manager (3-connector)" on page 31.

To hear all speakers from DVD movies recorded with multichannel audio, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels). Refer to "Configuring multichannel audio output for the DVD player" on page 31.

Using the microphone with the Multi-Channel Sound Manager (3-connector)

The 3-connector multichannel speaker system (select models only) connects to the PC using the Microphone, Audio (Line) In, and Audio (Line) Out connectors on the back of the PC. Your PC may have a second microphone connector on the front of the PC. If present, this microphone connector is ready to use, and does not affect the use of the multichannel audio speaker system.

To use the microphone connector on the back of the PC with a 3-connector multichannel audio speaker system, you must disconnect the cables for the multichannel speakers and change the audio configuration to a two-channel audio system. Refer to "Configuring the Multi-Channel Sound Manager (3-connector)" on page 30 to set the audio configuration.

Configuring multichannel audio output for the DVD player

The InterVideo WinDVD™ SE program (select models only) is set up for two-speaker (stereo) output. To hear all speakers from DVD movies recorded with multichannel audio, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels):

1 Insert a DVD, or start InterVideo WinDVD. (Click **Start**, choose **All Programs**, choose **InterVideo WinDVD**, select **InterVideo WinDVD Player**, and then click **InterVideo WinDVD**.) The WinDVD video window opens.

2 Right-click anywhere in the WinDVD video window, and then click **Setup**. The Setup window opens.

3 Click the **Audio** tab.

4 Click the option for the number of speakers to match your multichannel speaker system.

NOTE: When using the digital out connector for sound (6-connector, select models only), select **Digital (S/PDIF) out to External Processor**.

---

5 Click **Apply**.

NOTE: To test the speakers (multichannel speakers only), click the **Test** button. The WinDVD control panel shows the speaker number being used. Click **Stop**.

6 Click **OK**.

NOTE: If you want to play a stereo DVD, change the audio properties of WinDVD to match the recorded DVD audio output.

Setting up 6-connector sound

PC models that include six sound connectors (select models only) on the back of the PC, support up to eight channels of sound (7.1 speaker output) and use the Sound Effect Manager to configure the software settings.

Identifying the audio connectors (6-connector)

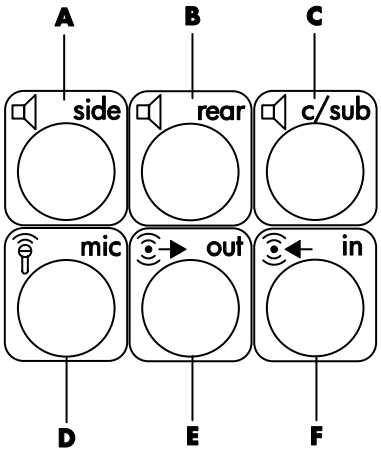
The PC supports a maximum of eight speakers in a multichannel speaker system by using four of the six audio connectors on the back of the PC.

This PC also has digital audio out and digital audio in connectors for digital sound devices such as a DVD recorder or a digital stereo receiver/amplifier.

The four connectors for the 6-connector multichannel speaker system are on the back of the PC.

- **A** Side speaker port (side)
- **B** Rear speaker port (rear)
- **C** Centre speaker/subwoofer port (c/sub)
- **E** Audio line out (out) for front speakers

The previous figure shows the six audio connectors arranged on the back of the PC: the four connectors used for eight-channel audio and the connectors for the microphone (**D**, mic) and the audio line in (**F**, in).



Connecting the speaker system to the PC (6-connector)

1. With the speaker system off, connect the speakers and the subwoofer, if present. Refer to the speaker documentation.
2. Turn off the PC.
3. Connect the audio cable plugs from the speaker system subwoofer to the connectors on the back of the PC. (See the following table.)

Connect speaker cable (plug) for:	To PC port [label, name] (colour):
Front speakers (or, two stereo speakers)	Audio line out [**E**, out] (lime green)
Side speakers	Side speaker [**A**, side] (gray)
Rear speakers	Rear speaker [**B**, rear] (black)
Centre speaker/subwoofer	Centre speaker/subwoofer [**C**, c/sub] (gold)

4. Turn on the PC.
5. Turn on the speaker system.
6. Configure the audio output for this 6-connector multichannel speaker system by performing the following procedure.

Configuring the Sound Effect Manager (6-connector)

1. Click **Start** on the taskbar.
2. Choose **Control Panel**.
3. If it is present, click **Sounds, Speech, and Audio Devices**.
4. Click **Sound Effect Manager**. The window opens.
5. Click the **Speaker Configuration** button.
6. Select the option describing the number of speakers in your system, for example, **7.1 speakers**.

   A connector with no descriptive text in the Connection Guide indicates that the connector is not used for the selected speaker configuration.

NOTE: You can click the **Speaker Test** button to test the speakers.

---

7. Click **OK**.

To hear all speakers from DVD movies recorded with multichannel audio, change the audio properties for WinDVD to match your speaker configuration (if your InterVideo WinDVD program supports more than two channels). Refer to "Configuring multichannel audio output for the DVD player" on page 31.

To use a microphone or set up the PC for recording, see "Configuring sound for recording with the Sound Effect Manager (6-connector)".

To use the other features of the Sound Effect Manager, see "Using the Sound Effect Manager (6-connector)" on page 35.

Configuring sound for recording with the Sound Effect Manager (6-connector)

The microphone connector on the front of the 6-connector audio PC is ready to use for recording sound. If you want to use another connector for recording, such as the digital audio in connector, use these steps to select it.

NOTE: The pink and green connectors on the front of a PC with 6-connector sound can be retasked to perform other audio functions; refer to "Using the Audio Wizard in the Sound Effect Manager (6-connector)"on page 36.

---

1. Click **Start** on the taskbar.
2. Choose **Control Panel**.
3. If it is present, click **Sounds, Speech and Audio Devices**.
4. Click **Sounds and Audio Devices**.
5. Click the **Audio** tab.
6. In *Sound recording* select the default device from the drop-down list. Choose:
   - **RealTek HD Front Pink socket** to use the microphone connector on the front of the PC.
   - **RealTek HD Digital Input** to use the digital audio in connector on the back of the PC.
   - **RealTek HD Front Green socket** to use the green connector on the front of the PC.
   - **Back Line in/Mic, Front Line in** to use the audio line in (in) or the microphone (mic) connectors on the back of the PC, or to use the audio line in connector on the front of the PC.

     NOTE: For this selection, the audio line in connector is ready to use. To use the back mic connector, follow the steps in "Selecting the Back Line in/Mic, Front Line in connectors for recording (6-connector)" that follows this procedure.

     ---
7. Click **Apply**, and then click **OK** to close the window.

Selecting the Back Line in/Mic, Front Line in connectors for recording (6-connector)

Perform these steps when you select *Back Line in/Mic, Front Line in* for the sound recording in step 6 of the previous procedure.

NOTE: If you want to record from the mic connector on the back of the PC, you must perform these steps.

---

1. Click **Start** on the taskbar.
2. Choose **Control Panel**.
3. If it is present, click **Sounds, Speech, and Audio Devices**.
4. Click **Sounds and Audio Devices**.
5. On the Volume tab, in the *Device volume* area, click the **Advanced** button. The Master Volume window opens.
6. Click **Options** and choose **Properties**.
7. In the *Mixer device* area, select **Back Line in/Mic, Front Line in** from the drop-down list. Click **OK**.
8. The recording control window opens and shows *Line In 1 or 2* selected. The line in connector you plug into is used. However, to use the mic connector on the back of the PC, click the **Select** tick box under *Microphone,* so a tick appears in the box.

Using the Sound Effect Manager (6-connector)

The Sound Effect Manager has four buttons that display its control screens.

To open the Sound Effect Manager:

1. Click **Start** on the taskbar.
2. Choose **Control Panel**.
3. If it is present, click **Sounds, Speech and Audio Devices**.
4. Click **Sound Effect Manager**. The window opens.
5. Click a button near the top of the window to see that control screen.

The Sound Effect Manager control screens:

- **Sound Effect** — selects the Environment and the Equaliser settings. You can select an Environment, such as *Under Water* or *Auditorium*. To use the Equaliser, click the power button in the centre of the circular equaliser control to turn on the Equaliser. You can click a pre-set button, such as *Pop* or *Live*, or manually adjust the settings, and then save them for easy selection later.
- **Speaker Configuration** — selects the number of speakers, shows the Connection Guide, and has the Speaker Test button to test the speakers. A connector with no descriptive text in the Connector Guide indicates that the connector is not used for the selected speaker configuration.

- **Digital Audio** — selects the digital audio output and digital audio frequency for the digital audio connectors on the PC.
- **Audio Wizard** — opens a window that shows the connector panel on the front of the PC. To close the window without enabling the wizard, click **OK**.

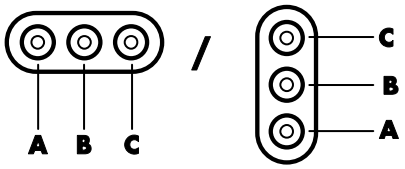
To enable the Audio Wizard:

Make sure the *Enable socket detection* tick box is selected to enable the wizard. Click **OK** to close the window.

Using the Audio Wizard in the Sound Effect Manager (6-connector)

When you click the **Audio Wizard** button, a window opens that shows the three audio connectors on the front of the PC.

NOTE: The connectors on the front of your PC may be of a different type or may be in a different arrangement; look for the connector icon and colour.



Connector	Name	Icon	Colour
A	Audio Line In	IN	Light blue
B	Microphone		Pink
C	Headphones *Or* Audio Line Out	*Or* OUT	Lime green

Retasking using the Audio Wizard (6-connector)

With the Audio Wizard enabled, both the microphone connector (**B**) and the headphones connector (**C**) on the front of the PC can be *retasked* to perform a different audio function. These two connectors are universal audio sockets. When you plug in a cable, the wizard asks you to select the function for the cable from a list, and then it sets the universal audio socket to perform as the selected function. The functions are:

- Stereo speaker (out)
- Microphone (in)
- Headphone (out)
- Audio line in

Working with Digital Images

You can connect a digital image source, such as a digital camera or a digital video camera, directly to the PC or through a docking station. Digital picture files you copy or download from the device appear in the My Pictures folder. You can copy digital picture files from the memory cards used by digital cameras and other digital imaging devices by using the memory card reader (select models only). Refer to "Introducing the memory card reader" on page 38.

Using HP Image Zone Plus

Use the HP Image Zone Plus software program to manage your photos, scanned images, and video clips. It has all the tools you need for viewing, organising, editing, printing, sharing and protecting digital images.

To open HP Image Zone Plus:

- Click the **HP Image Zone Plus** icon on your desktop.

Or

- Click **Start** on the taskbar, choose **All Programs**, and then click **HP Image Zone Plus**.

The HP Image Zone Plus window opens.

A Go to My Pictures button and mode tabs.
Click the button labelled **Go to My Pictures** (or **HP view**) to toggle between the Microsoft My Pictures directory and the HP Image Zone Plus software.

B Control area including view options, Print, Preferences and Help buttons.

C Work area, or *Gallery*, showing images on the PC.

D Selection tray.

Click a mode tab at the top of the application window (**A**) to choose the desired work area, as described in the following list.

NOTE: Click the button labelled *Preferences* (**B**) to customise the HP Image Zone Plus, and change some tab settings. For example, you can set HP Image Zone Plus to start any time you click the My Pictures folder.

My Images Click this tab to find, view, manage and print single or multiple photos or video clips. At the top of the control area (**B**), click **All by date** to view all your images, or choose **Folders** to browse for images. To select the images that you want to print or use, simply click the image (or images) in the gallery (**C**) and it appears in the selection tray (**D**). The selection tray images appear under every tab. For more information, see *manage your images* in Help.

Edit Click this tab to make changes, such as crop and red eye removal, to the images and video clips you placed in the selection tray. For more information, see *edit your images* in Help.

Projects Click this tab to create or to print a project using the images in the selection tray. Projects include photo album pages, cards and flyers. For more information, see *create projects* in Help.

HP Instant Share™ Click this tab to share photos with family and friends. Using HP Instant Share, you can create an e-mail, select the pictures to include, and then send your message. HP Instant Share creates thumbnails of your images that the recipients can view immediately in the message instead of opening a large e-mail attachment. To view the original photo, they can click on a thumbnail in their message, which links them to a secure Web page. On the Web page, they can see the photos, order prints (if the service is available in your country/region), save the images to their PC, and other tasks. For more information, see *share your images* in Help.

NOTE: You must be connected to the Internet to use the HP Instant Share feature.

Backup and Restore Click this tab to create backup discs of all the images on your PC or to restore images (either from a backup disc or from an automatically created digital negative).

Pictures to Go Click this tab to send photos to a mapped drive (such as a flash memory card or USB flash drive), or to synchronise photos on an HP iPaq. You can utilise the date, keyword, and album organisation information to choose which photos to send, or choose the photos manually. Deleting the *keep current* option for synchronising with an iPaq automatically updates the photos on the device every time it synchronises.

For more information on using HP Image Zone Plus, click the **Help** link in the control area (**B**) of the program window.

Introducing the memory card reader

Digital cameras and other digital imaging devices use memory cards, or *media*, to store digital picture files. The optional memory card reader (select models only) can read and can write to a variety of types of memory cards and the IBM Microdrive disk drive.

The card reader is accessible directly on the front of the PC or located inside a cover. It has two or four horizontal card slots, which accept the memory cards and the Microdrive disk drive.

Card	4-slot reader	2-slot reader
CompactFlash™ Type I media	Lower-left slot	Upper slot
CompactFlash Type II media	Lower-left slot	Upper slot
IBM Microdrive disk drive	Lower-left slot	Upper slot
Secure Digital (SD) Memory Card	Upper-right slot	Lower slot
MultiMediaCard (MMC)	Upper-right slot	Lower slot
Memory Stick® (MS) Memory Card	Lower-right slot	Lower slot
Memory Stick (MS-Pro) Memory Card	Lower-right slot	Lower slot
SmartMedia™ (SM) Memory Card	Upper-left slot	Lower slot
xD media	Upper-left slot	Lower slot

You can place media in one or more of the card slots and use each media independently. Place only one piece of media in a slot at one time.

Each card slot has its own drive letter and icon. When you insert media, the display label may change to the title of the media, if the title is present.

Working with the Safely Remove Hardware utility

CAUTION: Do not click *Stop* in the Safely Remove Hardware window with the USB Mass Storage Device selected. Doing so removes the operating system recognition of the memory card reader from your PC; you must restart the PC to see your memory card reader again.

If you open the Safely Remove Hardware window by mistake, click **Close**.

Using the memory card reader

NOTE: CompactFlash and Microdrive are keyed and cannot be inserted incorrectly. Insert the receptacle edge (holes) of this media into the slot.

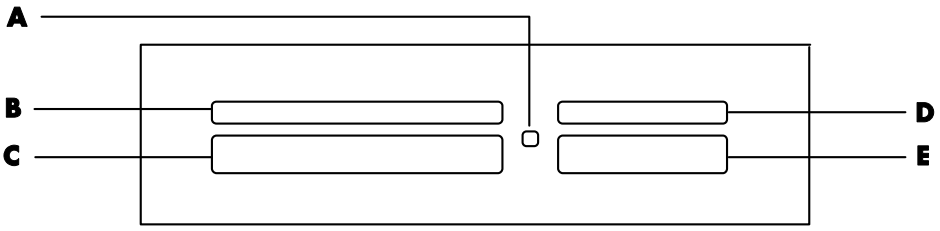
For the two-slot reader, the Secure Digital (SD) card, the MultiMediaCard (MMC), and the Memory Stick (MS or MS-Pro) cards must be inserted upside down (gold connector fingers facing up). Note the direction of the notched corner on the media.

1. Insert the media into the card slot until it stops. The in-use light (**A**) on the card reader lights, and the PC automatically detects the media.
2. The PC opens a window so you can use the media contents. You can copy files from or to the media.
3. When you are finished, right-click the drive icon, select **Eject**, check that the in-use light is on but not blinking, and then remove the media. A steady light indicates that the PC is not reading or writing the media.

WARNING: Do not try to remove media when the in-use light is blinking. Doing so may cause loss of data.

A In-use light
B Upper-left slot
C Lower-left slot
D Upper-right slot
E Lower-right slot

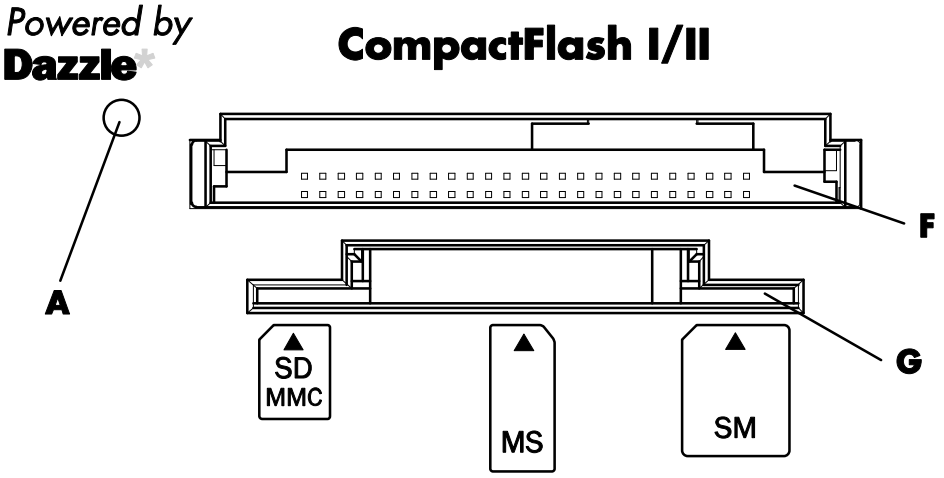
4-slot memory card reader



Card	Insert	Into 4-slot reader
CompactFlash Type I media	Receptacle edge (holes)	**C** (lower-left)
CompactFlash Type II media	Receptacle edge (holes)	**C** (lower-left)
IBM Microdrive disk drive	Receptacle edge (holes)	**C** (lower-left)
Secure Digital (SD) Memory Card	Facing up	**D** (upper-right)
MultiMediaCard (MMC)	Facing up	**D** (upper-right)
Memory Stick (MS) Memory Card	Facing up	**E** (lower-right)
Memory Stick (MS-Pro) Memory Card	Facing up	**E** (lower-right)
SmartMedia (SM) Memory Card	Facing up	**B** (upper-left)
xD media	Facing up	**B** (upper-left)

A In-use light
F Upper slot
G Lower slot

2-slot memory card reader



Card	Insert	Into 2-slot reader
CompactFlash Type I media	Receptacle edge (holes)	**F** (upper)
CompactFlash Type II media	Receptacle edge (holes)	**F** (upper)
IBM Microdrive disk drive	Receptacle edge (holes)	**F** (upper)
Secure Digital (SD) Memory Card	Upside down (gold connector fingers up)	**G** (lower)
MultiMediaCard (MMC)	Upside down (gold connector fingers up)	**G** (lower)
Memory Stick (MS) Memory Card	Upside down (gold connector fingers up)	**G** (lower)
Memory Stick (MS-Pro) Memory Card	Upside down (gold connector fingers up)	**G** (lower)
SmartMedia (SM) Memory Card	Facing up	**G** (lower)
xD media	Facing up	**G** (lower)

Using a TV as a Monitor

Your PC may have TV-out (select models only) capability, which means you can connect it to a television to view the computer image on a TV screen. With the TV-out feature, you can view the computer image, watch DVD movies (if you have a DVD player), or play games on your TV.

Identifying cables you may need

To connect a TV to the PC, you may need a video cable and an audio cable (not provided; purchase separately). The type of video cable you need depends on your TV:

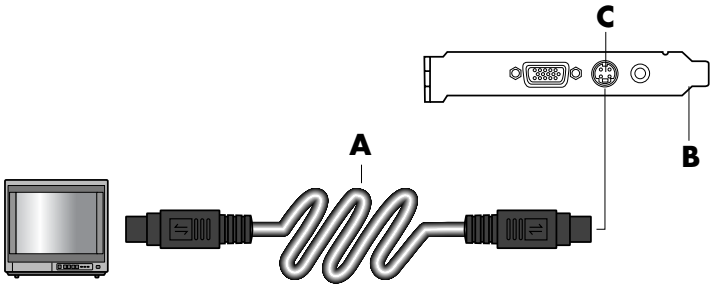
- If your TV has an S-video socket, you need an S-video cable.
- If your TV has a composite video socket, you need a composite video cable and, depending on the sockets on the back of your PC, you may also need an S-video adapter cable.

Connecting to a TV set

To use your TV as a PC screen:

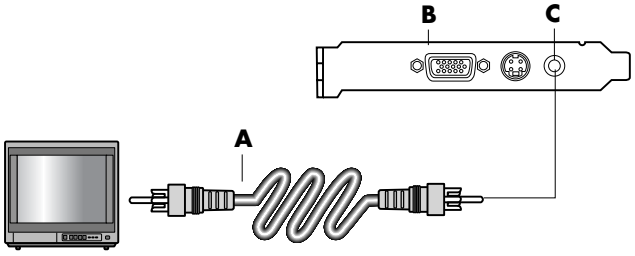
1. Turn off the PC.
2. Connect the TV cable using one of the following arrangements, depending on the connection sockets on your TV:
   - If your TV has an S-video socket, connect an S-video cable from the S-video In socket on the TV to the S-video socket on the back of the PC.

A S-video cable
B Back of PC
C S-video socket



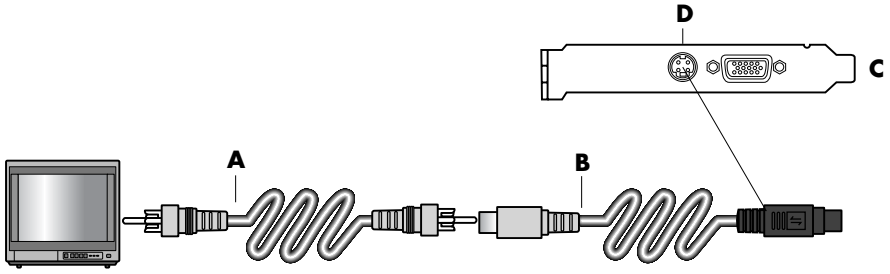
   - If your TV has a composite video socket and your PC has a composite video socket, connect a composite video cable to the Video In socket on the TV to the composite video socket on the back of the PC.

A Composite video cable
B Back of PC
C Composite video socket



- If your TV has a composite video socket and your PC has only an S-video socket, connect a composite video cable to the Video In socket on the TV and to an S-video adapter cable. Connect the S-video adapter cable to the S-video socket on the back of the PC.

A Composite video cable
B S-video adapter cable
C Back of PC
D S-video socket



NOTE: The S-video adapter cable is only needed if there is no composite video socket on the back of the PC.

3 To have sound come from your TV instead of from your PC, plug an audio cable into the audio input socket (Audio Line In) on the TV and plug the other end of the audio cable into the Audio Out socket (green connector) on the back of the PC.

Viewing the PC image on your TV screen

NOTE: The type of video card on your PC determines how the PC selects the TV-out option. Some options and menus in this procedure may be different for your PC.

1 Make sure the video and audio cables are connected before you turn on the TV and the PC.

2 Turn on the TV. Press the Video/TV button on your remote control to select the Video setting, not the TV setting.

3 Turn on your PC.

4 When the Windows desktop appears, right-click an empty area of the desktop and choose **Properties**. The Display Properties window opens.

5 Click the **Settings** tab.

6 Click the **Advanced** button.

7 Look at the tabs and follow the steps that apply to your PC:

- If you see the *nView* tab, continue with "nView tab."
- If you see the *Ge Force FX xxxx* tab, continue with "Ge Force tab." (*FX xxxx* is the video card number.)
- If you see the *Displays* tab, continue with "Displays tab."

nView tab

1. Click the **nView** tab.
2. To view the computer image on your PC monitor and your TV simultaneously, in the area *nView Display Mode* select **Clone**.

   Or

   To view the PC image on just the TV, in the area *nView Display Mode*, select **Standard [Dualview]**, click the **Device Settings** button, choose **Select Output Device**, and then select the **TV** option.
3. Click the **OK** button.
4. When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
5. Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

Ge Force tab

1. Click the Ge Force FX xxxx tab.
2. To view the computer image on your PC monitor and your TV simultaneously, in the area *nView Modes* select **Clone** from the drop-down list.

   Or

   To view the PC image on just the TV, in the area *nView Modes* select **Single display** from the drop-down list, and then, if necessary, in the *Current display* area select **TV** from the drop-down list.
3. Click the **Apply** button.
4. When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
5. Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

Displays tab

1. Click the **Displays** tab. This tab shows a monitor and a TV. The upper-left corner of each display icon is a button and a status indicator. A red corner indicates an inactive display; a green corner indicates an active display.

   NOTE: Your TV must be connected to the PC to change the display.
2. To view the computer image on your PC monitor and your TV simultaneously, click the upper-left corner of the TV icon so that it is green. Click **Apply**.

   Or

   To view the PC image on just the TV, click the TV corner so it is green, and then click the monitor corner so it is red. Click **Apply**.

3 When the PC image appears on the TV screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.

4 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

NOTE: Some PC models can connect more than one display device (CRT monitor, flat panel monitor, TV, and so on) to the PC. You can quickly change where the PC desktop appears by pressing Alt+F5. (Press the Alt key and the F5 key on the keyboard at the same time.) Each time you press the Alt+F5 key combination, the PC desktop appears on the next device. If Alt+F5 does not work, restart the PC and try again.

Disabling the TV option

When you want to disconnect the TV from your PC, you may need to disable the TV option to return your PC display to its original resolution.

1 Right-click an empty area of the screen, and choose **Properties**. The Display Properties window opens.

2 Click the **Settings** tab.

3 Click the **Advanced** button.

4 Look at the tabs and follow the steps that apply to your PC:

- If you see the *nView* tab, continue with "nView tab (disabling)."
- If you see the *Ge Force FX xxxx* tab, continue with "Ge Force tab (disabling)."
- If you see the *Displays* tab, continue with "Displays tab (disabling)."

nView tab (disabling)

1 Click the **nView** tab.

2 If you viewed the computer image on your PC monitor and your TV simultaneously, click the *nView Display Mode* in the list on the left, and then select the **Standard [Dualview]** option.

Or

If you viewed the PC image on just the TV, click the *nView Display Mode* in the list on the left, select **Standard [Dualview]**, click the **Device Settings** button, choose **Select Output Device**, and then select the **Analogue Display** option.

3 Click the **OK** button.

4 When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.

5 Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

Ge Force tab (disabling)

1. Click the Ge Force FX xxxx tab.
2. In the area *nView Modes* select **Single display** from the drop-down list. In the area *Current display* select **Analogue Display** or **Digital Display**.
3. Click the **Apply** button.
4. When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
5. Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

Displays tab (disabling)

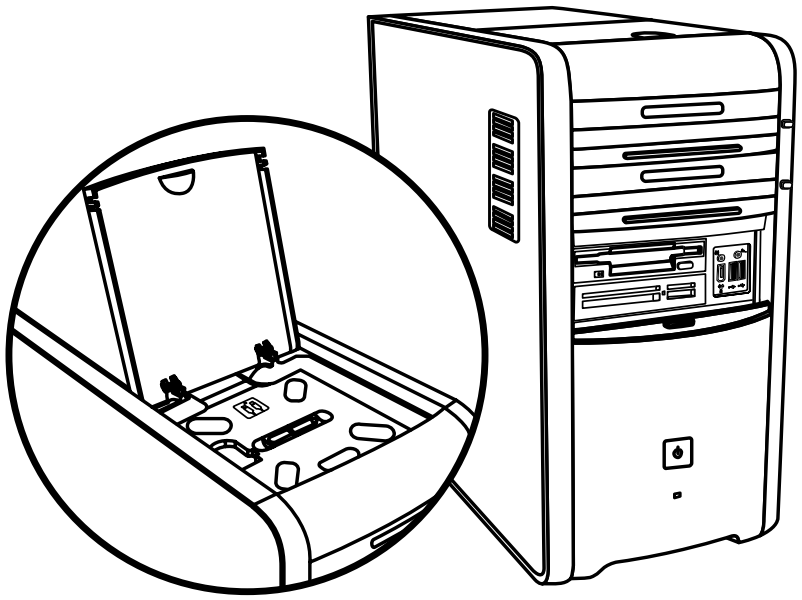
1. Click the **Displays** tab. This tab shows a monitor and a TV. The upper-left corner of each display icon is a button and a status indicator. A red corner indicates an inactive display; a green corner indicates an active display.
2. Click the upper-left corner of the TV icon so it is red, and then click the upper-left corner of the monitor icon so it is green. Click the **Apply** button.
3. When the PC image appears on the monitor screen, click **Yes** to keep the setting. You have 15 seconds to accept this new setting before it reverts to the previous setting.
4. Click the **OK** button to save changes, and then click **OK** again to close the Display Properties window.

Disconnecting the TV

1. Disable the TV option. See the previous procedure.
2. Turn off the TV and the PC.
3. Remove the video cable from the TV and the PC.
4. Remove the audio cable from the TV and the PC.
5. Reconnect your PC speaker cable to the Line Out socket (lime-green connector) on the back of the computer.

Using Your Multi-storage Bay

Your PC may have a multi-storage bay (select models only) on the top of the PC chassis.



You can use the multi-storage bay to:

- Store CDs, DVDs, or memory cards.
- Dock a peripheral device in the bay, such as a digital camera docking station.
- Place a peripheral on the top of the chassis.
- Install the special cover and an HP camera and HP camera docking station (both sold separately).

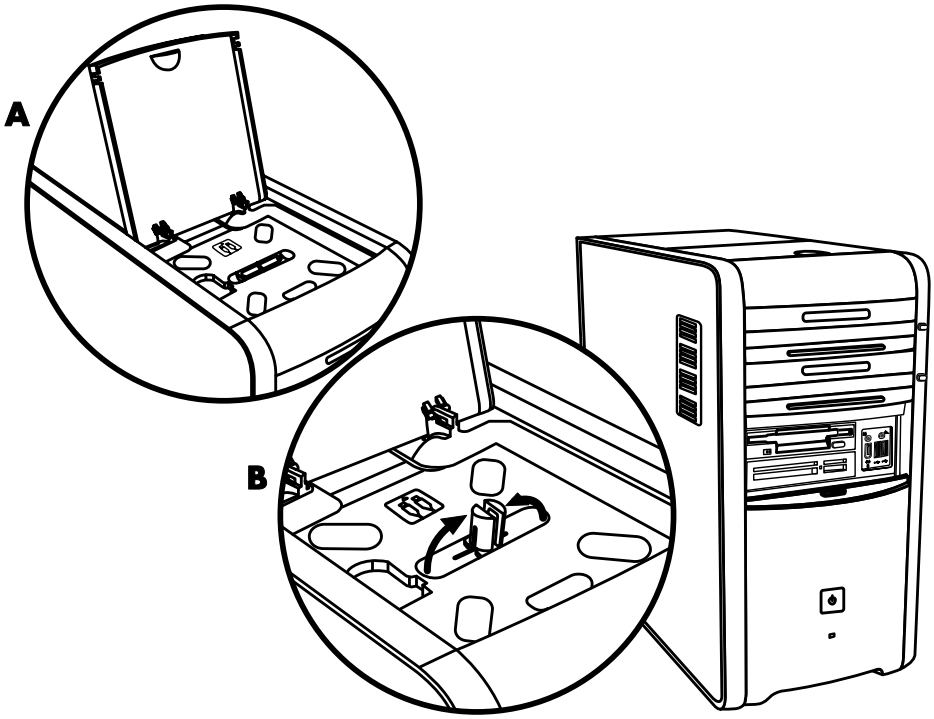
The bay design allows you to place a device and thread the USB or FireWire (IEEE 1394) data cable and the power cable underneath the rear top cover to the connectors on the back of the PC.

Your PC may look different from the one shown here. Component, connector location, type and number vary by model.

Storing CDs, DVDs, or memory

To store CDs and DVDs, open the bay cover (figure **A**) and gently lift the two sections to form the spindle (figure **B**). You can store up to ten discs.

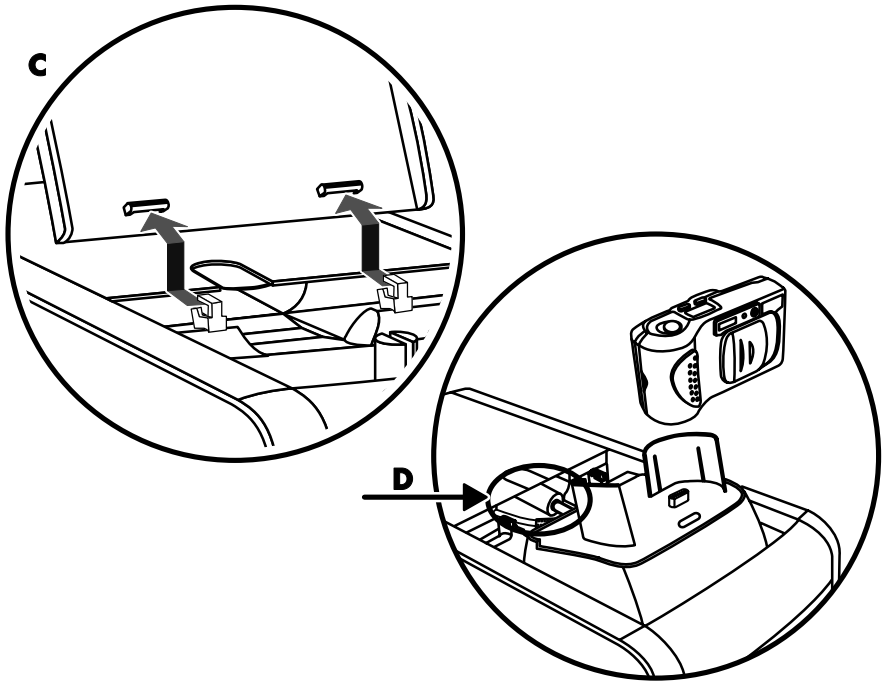
To store memory cards, open the top cover and, if necessary, lower the two spindle sections (figure **A**).



Docking a peripheral device

To use the multi-storage bay for a peripheral device, do the following:

1 Open the bay cover (**A**). Hold the cover on each side near the hinges, and then lift the cover and slide it toward the back of the chassis (**C**). Gently lift it off.



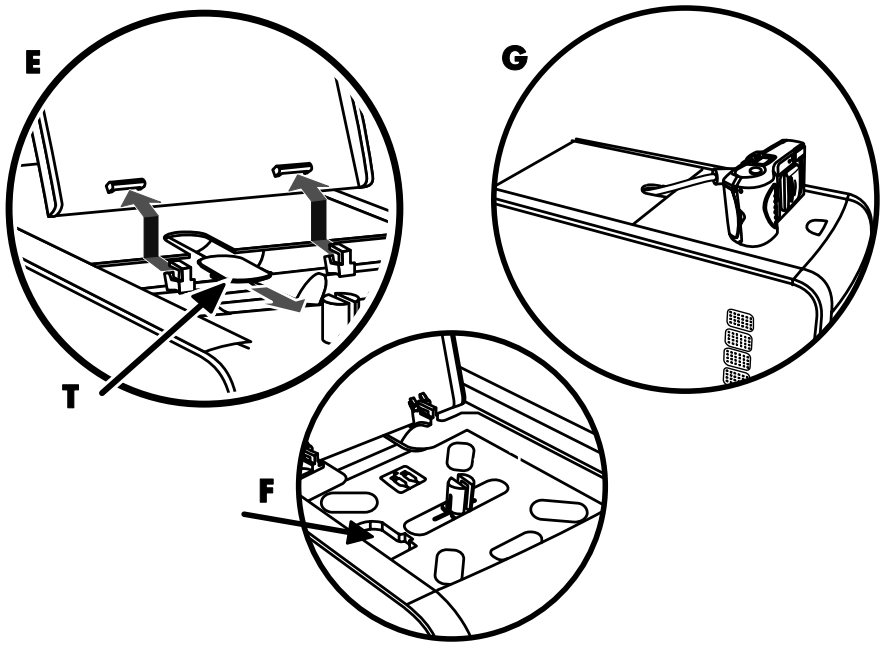
2 Thread the cables through the cable tunnel opening at the back of the bay (**D**). Connect data and power cables to the peripheral device, and place the peripheral in the bay.

3 Connect the data cable to the USB or FireWire (IEEE 1394) connector on the back of the PC. Plug the power cable for the peripheral device into a power outlet.

Placing a peripheral device on the multi-storage bay (top)

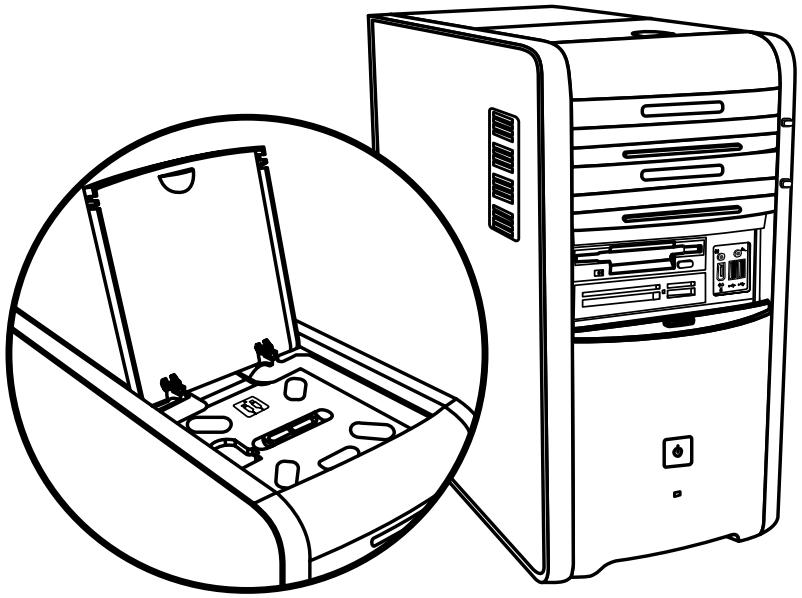
To use the chassis top to place a peripheral device, do the following:

1. Open the bay cover (**A**). Hold the cover on each side near the hinges, then lift the cover and slide it toward the back of the chassis (**C**). Gently lift it off.
2. Grasp the tab (**T**) and pull it out toward the front of the chassis (**E**). Put the tab in its storage area in the bay near the spindle (**F**).
3. Thread the data and power cables for the device through the cable tunnel opening at the back of the bay. Place the cables in the tab opening, and replace the bay cover. Close the cover.
4. Connect the cables to the device and place it on top of the chassis (**G**). Connect the data cable to the USB or FireWire (IEEE 1394) connector on the back of the PC. Plug the power cable for the peripheral device into a power outlet.



Using the optional camera station PC top

Your PC chassis may include the optional camera docking station feature.



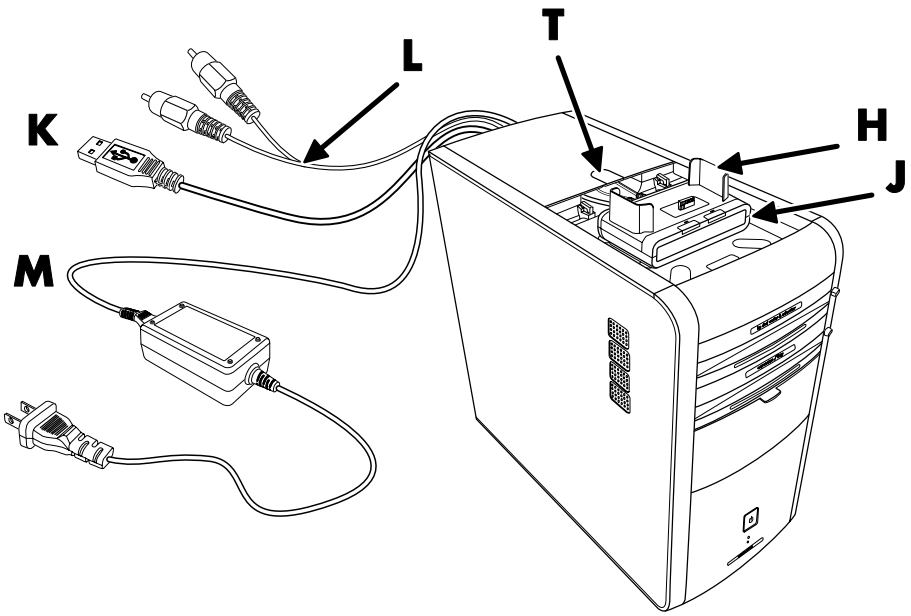
This feature lets you install a special bay cover (optional) on the PC chassis for using an HP camera and HP camera docking station. (Both the camera and the docking station are sold separately.) The camera includes a camera cradle, and the docking station includes cables.

This topic describes how to:

- Install the special bay cover on your PC chassis.
- Assemble the camera cradle (included with the camera), and position it on the docking station.
- Place the docking station into the chassis bay, and thread the cables.
- Insert the camera.

1 Open the bay cover (**A**). Hold the cover on each side near the hinges, then lift the cover and slide it toward the back of the chassis (**C**). Gently lift it off.

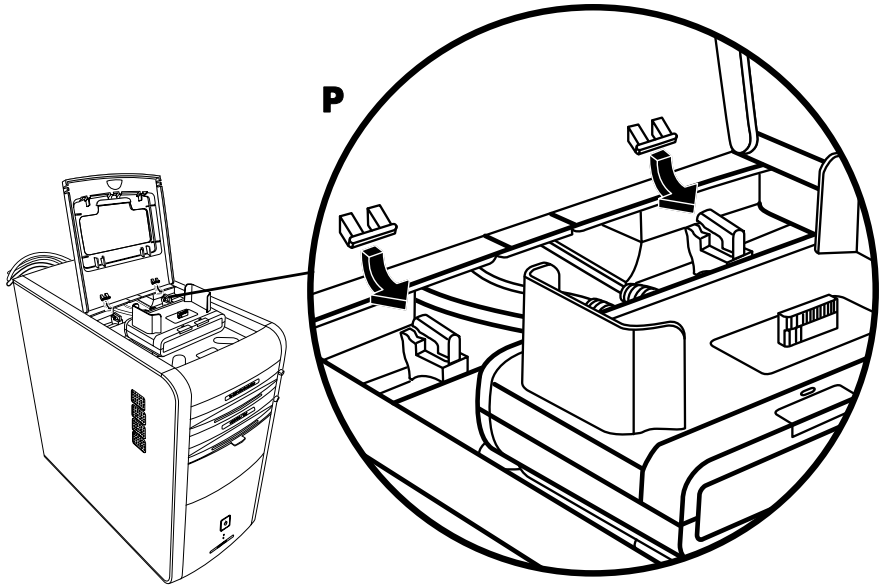
To make it easy to insert the cables during step 3, grasp the tab (**T**), and pull it out toward the front of the chassis (**E**). Replace the tab after threading the cables.



2 Place the camera cradle (**H**) (included with the camera) onto the docking station (**J**).

3 Place the docking station into the bay. Thread the data cables (**K** and **L**) and power cable (**M**) through the cable tunnel opening at the back of the bay, and connect them to the docking station.

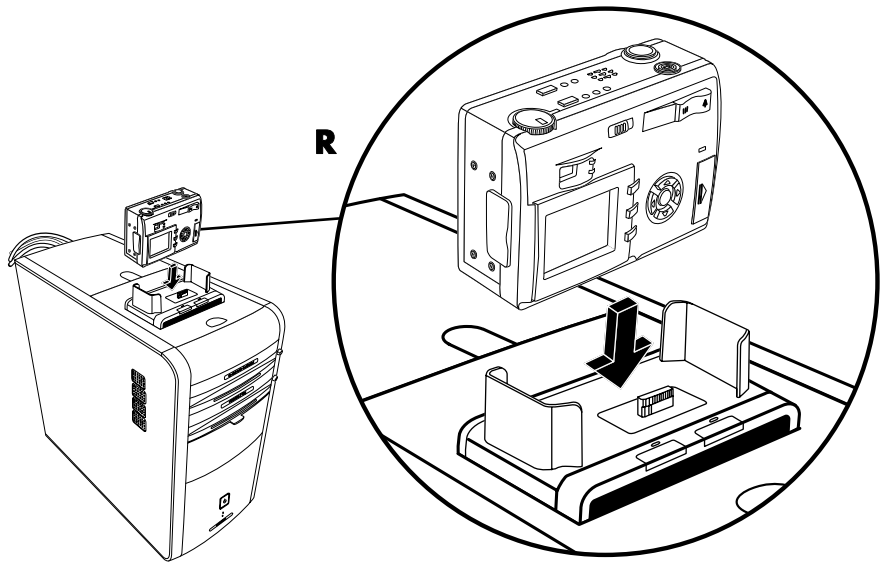
4 Put the new cover on the cover hinges (**P**). Close the cover over the docking station.



5 Connect the docking station cables:

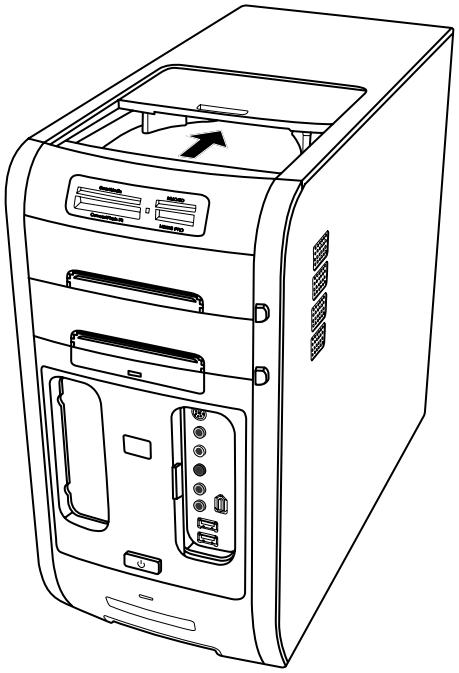
- Plug the USB cable (**K**) into the back of the PC.
- Plug the red and yellow connectors (**L**) into a TV if you want to view the camera images on a TV.
- Plug the power cable (**M**) into a power outlet.

6 Insert the camera: Hold the camera over the camera cradle (**R**) with the viewer window toward the front of the PC, and lower the camera onto the cradle.



Using Your Camera Docking Bay

Your PC may have a camera docking bay (select models only) on the top of the PC chassis.



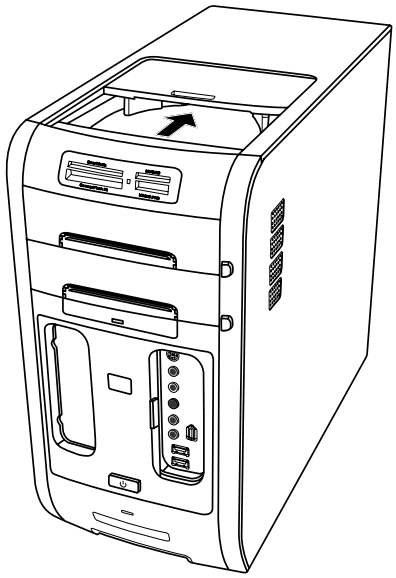
You can use the camera docking bay to:

- Store CDs, DVDs, or memory cards.
- Dock a peripheral device in the bay, such as a digital camera docking station.
- Install a special cover (optional) and an HP camera and HP camera docking station. (Both the camera and the docking station are sold separately.)

The bay design allows you to place a device and thread the USB or FireWire (IEEE 1394) data cable and the power cable underneath the rear top cover to the connectors on the back of the PC.

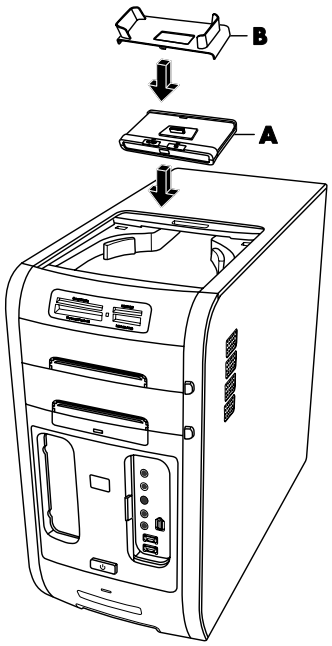
Your PC may look different from the one shown here. Component, connector location, type, and number vary by model.

To store CDs, DVDs, or memory cards:
Gently press down and slide the bay lid open.



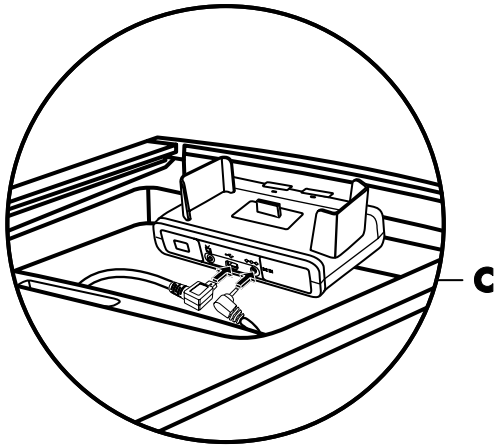
To install a peripheral device or an HP camera and HP camera docking station:

1. Gently press down and slide the bay lid open.
2. Place the peripheral device or the camera docking station (**A**) on the top of the PC.



3 Place the camera cradle (**B**) that came with the digital camera on the camera docking station. The cradle clips onto the camera docking station.

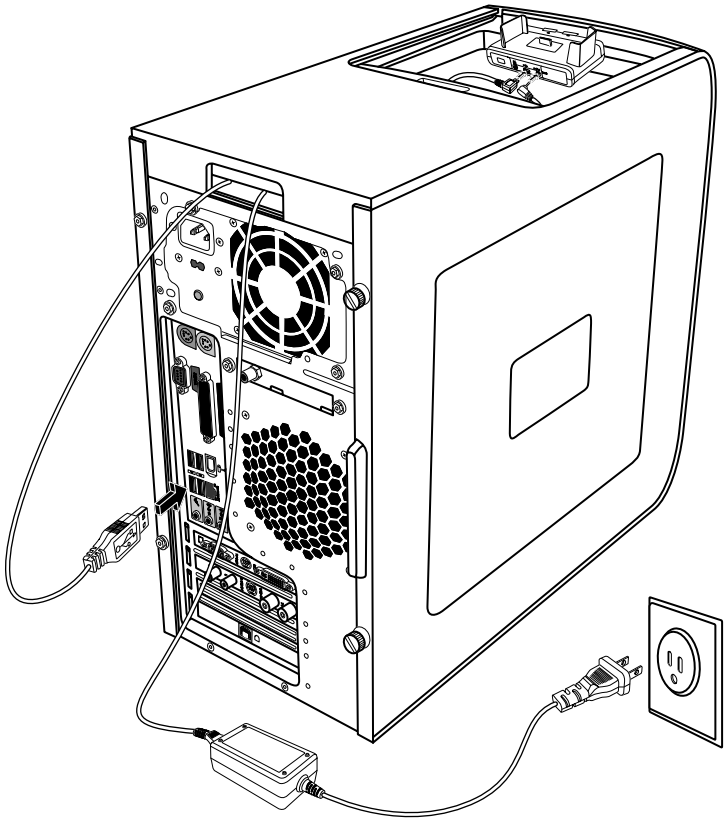
4 Thread the cables that came with your peripheral device or camera docking station through the cable tunnel (**C**); starting from the back of the PC, thread them to the front of the PC. Pull the cables to the centre, and connect them to the peripheral or the docking station.



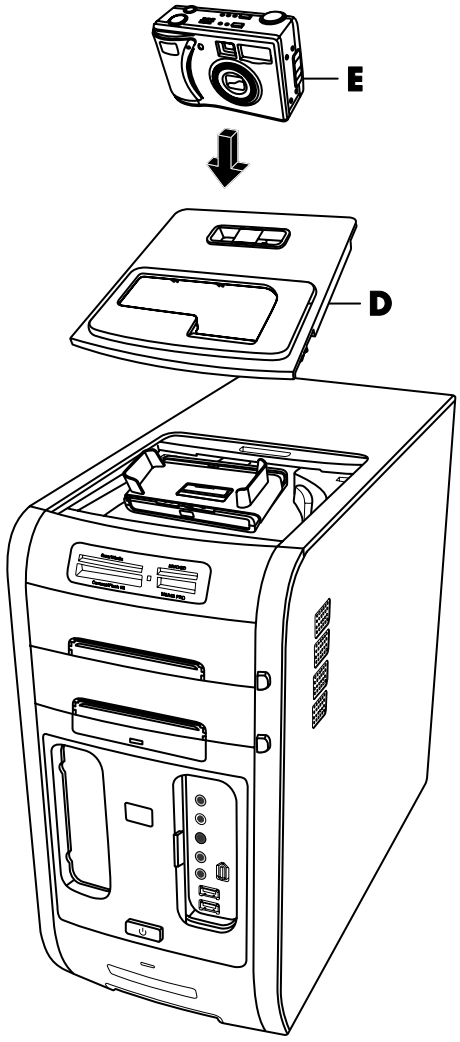
5 Connect the cables to the back of the PC or to a power outlet. For an HP camera docking station:

- Plug the USB cable into the back of the PC.
- Plug the red and yellow connectors (not shown) into a TV if you want to view the camera images on a TV (optional).
- Plug the power cable into a power outlet.

Refer to the instructions that came with the HP camera docking station.



6 Place the correct camera docking station lid (**D**) on top of the PC. Gently guide the edge of the lid into the top of the PC.



7 Place the HP digital camera (**E**) into the camera docking station.

8 Follow the instructions that came with your camera docking station.

Playing CDs and DVDs

Your PC includes software that lets you play music CDs and DVD movies (select models only). This section describes how to:

- Play music CDs using Windows Media Player, or play music CDs or DVDs with iTunes.
- Play DVD movies using Windows Media Player or InterVideo WinDVD (select models only).
- Play video CDs (VCD) with InterVideo WinDVD or Windows Media Player.

Playing Music CDs with iTunes

You must have either a CD or DVD drive.

1. Insert the music CD into your CD or DVD drive.
   - The iTunes window opens. If the Audio CD wizard window opens, choose **Play Audio CD using iTunes** from the list. You may have to scroll down in the window to see iTunes.

   Or

   - If the iTunes window does not automatically open, click **Start** on the taskbar, choose **All Programs**, click **iTunes**, and then click **iTunes**.
2. The music CD automatically begins to play.

   Or

   Click the **play** button in the upper-left corner of the iTunes window. To play a particular song, double-click the song name (or track number).

NOTE: If you do not have an Internet connection, your CD is listed as Audio CD on the source list and your Song Names are listed as Track numbers.

For more information on using iTunes, click the **Help** menu in the iTunes menu bar. Go to http://www.hp.com/music for help online.

Playing CDs and DVDs with Windows Media Player

Your PC must have a DVD drive to play DVD movies.

1. Insert the music CD or DVD movie into the drive.
   - The Windows Media Player window opens. If the wizard window opens, select **Windows Media Player** from the list. You may have to scroll down in the window to see Windows Media Player.

   Or

   - If the Windows Media Player window does not automatically open, click **Start** on the taskbar, choose **All Programs**, and then click **Windows Media Player**.
2. To play the CD or DVD, use the playback buttons in the Windows Media Player window. To play a particular track, double-click the title (or track number) in the Playlist. You can also control playback by using the media control buttons on the keyboard (select models).

For more information on using Windows Media Player, click the **Help** menu in the Windows Media Player menu bar. If necessary, first display the menu bar by clicking the **up arrow** icon in the upper-left corner of the Windows Media Player window.

Playing DVD Movies with InterVideo WinDVD

The InterVideo WinDVD program uses a DVD drive (select models only) to play DVD movies.

NOTE: Most DVD movies are localised to geographical countries/regions. See "Using country/region codes" on page 62.

---

1. Insert a DVD disc into the DVD drive.

   NOTE: On a double-sided DVD, read the text around the inner hole of the disc to determine which side (A versus B or Standard versus Widescreen) to play. Place the disc in the tray with the label facing up for the side you want to play.

   ---
2. Close the disc tray by gently pushing the tray into the PC.

   The movie plays in its own resizable video window, and the WinDVD control panel appears. If the Play DVD movie wizard window opens, select **Play DVD movie using InterVideo WinDVD** from the list. You may have to scroll down in the window to see it.

   Or

If the program does not automatically open:

a Click **Start**, choose **All Programs**, choose **InterVideo WinDVD**, select **InterVideo WinDVD Player**, and then click **InterVideo WinDVD**.

b Use the playback buttons on the control panel to view the movie.

NOTE: To see what a button does on the control panel, place the mouse pointer on the button; the button title appears onscreen.

NOTE: If you are playing a movie full screen and the WinDVD control panel is hidden, you can redisplay it by clicking anywhere in the video window.

To use the WinDVD control panel:

- To move the WinDVD control panel, place the mouse pointer on the panel (but not on a button), and drag it to the desired location on the screen.
- To resize the video window when it is not full screen, place the mouse pointer on a window corner, and drag the border.

  Or

  Click the **Full Screen** button in the upper-right corner of the WinDVD control panel.

- For information on the InterVideo WinDVD software, refer to the online Help within the program by clicking the **?** (question mark) icon in the WinDVD control panel.

Using country/region codes

Most DVD discs have country/region codes embedded in the disc data that limit where the DVD movie can be played.

The country/region number is usually placed over a world globe printed on the DVD packaging and disc. DVDs without country/region codes will play on any player or drive in any country/region.

WARNING: You can change countries/regions only five times before the country/region code locks and becomes permanent. Once the code locks, you can play DVDs from that country/region only. If the country/region code locks, and you need help, contact Support.

WinDVD is not pre-set to a particular country/region — the country/region code of the first DVD movie you play determines your DVD country/region.

For example, if you play a DVD with a country/region 1 code, WinDVD sets the current country/region of your DVD player to 1. If you later play a DVD that is coded for a different country/region, WinDVD asks if you want to set this as the current country/region.

Playing Video CDs (VCD) with InterVideo WinDVD

1. Insert your video CD (VCD) into a DVD or CD drive.
2. Select **Play DVD movie using InterVideo WinDVD**, and click **OK**.

   Or

   If the program doesn't open, click **Start**, choose **All Programs**, choose **InterVideo WinDVD**, select **InterVideo WinDVD Player**, and then click **InterVideo WinDVD**.
3. If you have a dual-language Video CD, the sound of one language comes out of the left speaker, and the other language comes out of the right speaker. Double-click the **Volume** icon on the taskbar.

4. Under **Volume Control Balance**, move the slider bar all the way to the right or to the left, depending on which language you want to hear.
5. Close the Volume Control window.

Playing Video CDs (VCD) with Windows Media Player 9

1. Insert your video CD (VCD) into a DVD or CD drive.
2. Select **Play DVD movie using Windows Media Player**, and click **OK**.

   Or

   If the program doesn't open, click **Start**, choose **All Programs** and **Windows Media Player**.
3. Click **File** on the menu bar at the top, and click **Open**. (If you do not see the menu bar, click the small circle with the up/down arrows in the upper-left corner of the window.)
4. Click the **Look In** drop-down arrow and select the drive that has the Video CD.
5. Double-click the **MPEGAV** folder.
6. Select **Any File (*.*)** from the **Files of type** drop-down list.
7. Select the file, and click **Open**.
8. If you have a dual-language Video CD, the sound of one language comes out of the left speaker and the other language comes out of the right speaker. Click **View** on the menu bar, choose **Enhancements**, and select **Graphic Equaliser**.
9. Move the **Balance** slider bar all the way to the left or to the right, depending on which language you want to hear.
10. Close the Graphic Equaliser window.

Creating (Burning) CDs and DVDs

NOTE: *Burn* is an industry term used to describe the recording of information onto a DVD or CD. Optical recording uses a laser beam to place information onto the disc, thus the term *burning*.

NOTE: If your recording fails, manually select a slower recording speed, if available, each time you make a recording. Refer to the Help menu in your selected software program for more information about selecting a slower recording speed.

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If your PC has a CD-RW or DVD Writer (select models only), your PC has recording software and you can make your own music or data CDs.

Your PC has four recording software programs, iTunes, Windows Media Player, RecordNow!™, and Windows XP. You copy or download music to their library and can then organise or copy the music files. You can copy Windows Media files that have a .wma extension, .mp3 files or .wav files to a CD by using a CD-RW drive or a DVD Writer drive. You can also use iTunes or Windows Media Player to copy music files to a portable device or memory card.

Use a CD-R disc if you are going to play the disc in a CD player, CD-ROM, CD-RW, DVD-ROM, DVD+RW/+R or double-layer DVD+R drive. CD-R discs are compatible with more players than CD-RW discs.

Creating (Burning) Music CDs with iTunes

To create a music CD using iTunes:

1. Click **Start** on the taskbar, choose **All Programs**, select **iTunes**, and then click **iTunes**.
2. Click the **Edit** menu and select **Preferences**.
3. Click the **Burning** tab and choose **Audio CD** as the Disc Format.
4. Click the **Use Sound Check** tick box if you would like all songs on the CD to play at the same volume level, and click **OK**.
5. Click the **File** pull-down menu, and select **New Playlist**.
6. Enter a name for your new playlist, and an empty playlist window opens.
7. Drag and drop selected songs from your source to your new playlist.
8. Click the **Burn Disc** button in the upper-right corner.
9. Insert a blank disc into your drive (double-layer DVD+R discs are not compatible).
10. Click **OK**.

For more information on using iTunes, click the **Help** menu in the iTunes menu bar. Go to http://www.hp.com/music for help online.

Creating (Burning) Music CDs with Windows Media Player

1. Click **Start** on the taskbar, choose **All Programs**, and then click **Windows Media Player**.
2. Click **Copy to CD or Device**.
3. Click the drop-down arrow in the **Items to Copy** field, and select the songs you want to burn to a CD.

   If there are not any songs listed, insert a CD into your drive and click **Copy from CD**. Follow the onscreen instructions.
4. Click the **Copy** button in the upper-right corner.

For more information on using Windows Media Player, click the **Help** menu in the Windows Media Player menu bar. If necessary, first display the menu bar by clicking the **up arrow** icon in the upper-left corner of the Windows Media Player window.

Creating (Burning) Data CDs Using Windows XP

Your PC has recording software to record data files, such as text files or digital pictures, onto CDs.

1. Click **Start** on the taskbar and choose **My Documents** or the folder that has the files you want to copy.
2. Select the file or files you want to copy.
3. Click **Copy to CD** in the Tasks list.
4. Click **My Computer** in the Other Places list and then double-click the disc drive you want to use.
5. Insert a blank disc into the drive.
6. Click **Write these files to CD** in the CD Writing Tasks list. The CD Writing Wizard window appears.
7. Click **Next**.
8. Click **Finish**.

Creating (Burning) CDs with RecordNow!

NOTE: For more information about recording CDs, refer to the Help menu in the RecordNow! software program.

NOTE: The CD-RW, DVD Writer or Double-Layer drive is available on select models only.

1. Click **Start** on the taskbar.
2. Choose **All Programs**.
3. Click **Sonic RecordNow!**, and then click **RecordNow!** again.

   NOTE: Previously recorded files on CD-RW discs must be erased before recording music files. CD-R discs cannot be erased.

4. If you need to erase a disc (CD-RW or DVD+RW): Insert the disc, and select the **Home Screen** Tab, and then select **Erase Disc**.

Creating Music CDs with RecordNow!

RecordNow! creates *closed session* music CDs, which means you must record all music files on one CD in one recording session. Music files can be recorded repeatedly on a rewritable CD-RW disc, but all previously recorded files must be erased first. CD-R discs cannot be erased.

NOTE: CD-R discs play in most home and car stereos. CD-RW discs play only in some stereos.

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You can use RecordNow! to create audio CDs to play in your car or home CD player or on your PC.

Creating CDs to Play in Your Car or Home CD Players with RecordNow!

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Audio Projects** tab.

3. Select **Audio CD for Car or Home CD Player**.
4. Insert a music CD to view the tracks on your CD. Select **View** if you would like to look at another optical drive.

   Or

   Click **Find** and then click either **Scan for Music** or **Browse** to find music files on your hard disk drive that you want to record.
5. Select the tracks you want to record, and then click **Add**.

   NOTE: Press and hold Control (Ctrl) on your keyboard to select more than one track.

6. Click the **Burn** icon when you have added all the audio files to your music CD project.

7. Click **Yes**.
8. When prompted, insert a blank CD-R or CD-RW disc.
9. Click **OK**. It is best not to use the PC while recording.
10. Click **Done** when recording is complete.

Click the **Help** icon and then select **RecordNow! Help** for more information about recording music CDs with the RecordNow! program.

Creating CDs to Play on Your PC

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Click the **Audio Projects** tab.

3. Select **Jukebox CD**.
4. Insert a music CD to view the tracks on your CD.

   Or

   Click **Find** and then click either **Scan for Music** or **Browse** to find music files on your hard disk drive that you want to record.

NOTE: RecordNow! scans for all audio files, even the sounds from your operating system. If you don't want to display some of these sounds, you can select the **Options** icon (wrench), and then select **Audio**. Select **Hide audio files shorter than (in seconds)**, type in the number of seconds, and click **OK**.

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5. Select the tracks you want to record, and then click **Add**.

NOTE: Press and hold the Control (Ctrl) key to select more than one track.

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6. Click the **Burn** icon when you have added all the audio files to your music CD project.

7. Click **Yes**.
8. When prompted, insert a blank CD-R or CD-RW disc. If the CD-RW disc is not blank, RecordNow! prompts you to erase it, and then automatically begins writing to it when it is erased.

NOTE: If you want to play your music CD in your home or car stereo, use a CD-R disc. CD-RW discs may not play in some stereos.

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9. Click **OK**. It is best not to use the PC while recording.
10. Click **Done** when recording is complete.

Click the **Help** icon and then select **RecordNow! Help** for more information about recording music CDs with the RecordNow! program.

Creating a Music CD

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When recording music files, it is important to note that:

- To play your music CD in a home or car stereo, it needs to be recorded as a music CD in CD Audio (CDA) format, not as a data CD.
- You must record all music files in one recording session because RecordNow! closes the CD after recording is complete. Music files can be recorded repeatedly onto a rewritable (CD-RW) disc, but all previously recorded music files must be erased first.
- As you add music files in the recording session, RecordNow! calculates and displays the amount of recording time available to record additional music files.
- You can't record song titles unless you make an exact copy of a music CD in your collection.
- If you try to record more than a standard CD can hold, RecordNow! displays a message warning you that all the tracks may not fit on your disc.

Storing Files on a DVD or CD

Unlike music CDs, data DVDs and CDs can be recorded in multiple sessions.

1 Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.

2 Select the **Data Projects** tab.

3 Insert a blank or appendable CD-R, CD-RW, DVD+R, DVD+RW or Double-Layer DVD+R (select models) disc into your drive, and then click **Data Disc**.

- If the disc is blank, follow the onscreen instructions.

Or

- If the disc is full, insert a blank or another appendable disc.

Or

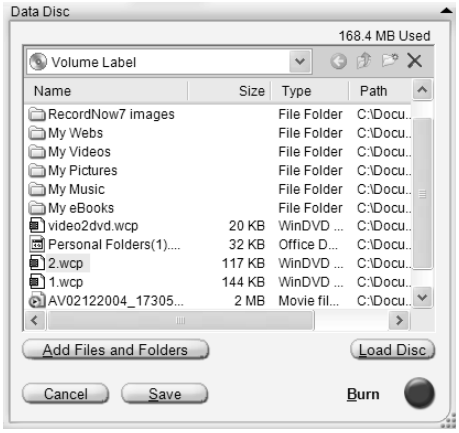
- If you are adding files to a disc, follow the onscreen instructions.

NOTE: An appendable disc means additional files can be added to it, if there is disc space available. Recorded audio CDs are closed session discs which are not appendable.

4 To name your disc, select **Volume Label**, and then type a name over it. RecordNow! assigns a name based on the recording date if you don't type in a name.

5 Add your data files to the file selection window:

- Click the **Add Files and Folders** button, find and select your folders and files, and then click **Add**. Repeat this step until all files are added.



Or

- Drag your file from your desktop or from anywhere in Windows Explorer into the file selection window. Repeat this step until all files are added.

NOTE: You can rename your files in the file selection window by selecting and typing over the current name. This does not affect the original files on your hard disk drive.

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6 Click the **Burn** icon when all of your files have been added.

7 Click **Done** when recording is complete.

Click the **Help** icon and then click **RecordNow! Help** for more information about recording data files with the RecordNow! program.

Storing Data Files on Disc

When storing data files on a disc, it is important to note that:

- You can add new data files to a CD-R and a DVD+R in a later recording session, until the disc is full. With DVD+R discs, you need to select the correct setting in RecordNow! to record files in a later session. To do this, insert your recorded DVD, open RecordNow!, click the **Options** icon (wrench), click **Data**, select the recording option you want, and then click **OK**.
- When you record files that have the same name as previously recorded files, RecordNow! updates the file and the previous version is overwritten.
- RecordNow! allows you to change file names and titles of files you want to record and names of files that were previously recorded.
- As you select data files to record to your disc, RecordNow! calculates and displays the amount of recording space used on your disc.

Copying a DVD or CD

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RecordNow! allows you to make a copy of a music or data disc from your collection. You can't copy commercial DVDs because they are protected by copyright laws, and are encoded to prevent illegal duplication.

To make a copy of a music or data disc from your collection:

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Data Projects** tab.
3. Select **Exact Copy**.
4. Insert the CD or DVD you want to copy.
5. Click the **Copy** icon.

6. Insert a blank DVD or CD into the drive, and then click **OK**.
7. Click **Done** when the recording is complete.

Erasing a DVD or CD

You can use RecordNow! to erase music, data or video files from rewritable DVDs and CDs, leaving almost all the disc space available for new recordings.

If you try to record a video or music file to a rewritable disc that has files on it, the recording program prompts you to erase the disc first.

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Insert the DVD+RW or CD-RW you want to erase. If an Auto Play window opens, click **Cancel**.
3. Select the **Home Screen** tab and then **Erase Disc**.
4. Click **Yes** to confirm that you want to erase the disc.

Removing Files in RecordNow!

When removing files in RecordNow!, it is important to note:

- When you remove a recorded file from a data DVD+R or CD-R, the disc space is lost and can't be used for new recordings.
- You can't remove music files from previously recorded music CDs, but you can remove music files from the File Selection window in RecordNow! before you record the files to your disc.
- You must use a blank CD to create a music CD.
- If you delete files from the File Selection window in RecordNow! before the disc is recorded, available disc space is not affected. If you remove a file from a DVD+R or CD-R after the disc is recorded, available disc space is lost.

Removing Files from a Recorded Data Disc

RecordNow! can't erase files from recordable (record once) DVDs or CDs, but files that have been previously recorded can be removed. When you remove a recorded file from a data DVD+R or CD-R, the disc space is lost and can't be used for new recordings.

To remove data files from a recorded DVD or CD:

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Data Projects** tab.

3. Insert the disc from which you want to remove files. If an Auto Play window opens, click **Cancel**.
4. Click **Data Disc**.
5. You must have at least one file on your data disc to re-record it. Select the file you want to remove and then click the **Remove** icon in the upper-right corner.

6. Click **Yes**.
7. Click the **Burn** icon to save your data disc without the files you removed.

8. Click **Done** when the recording is complete.

Archiving Files on a DVD or CD

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Backup Projects** tab.
3. Select **File Archive**.
4. Insert a blank CD or DVD into the drive.
5. Place a tick in the **Changed since** box to limit the scan to files that have been changed since the last time you completed a File Archive.
6. Add your files to the Archive window:
   - Select one or more categories from the list on the left, and click **Scan**. RecordNow! scans your hard disk for files related to the category, and moves them to the Archive window on the right.

   Or

   - Drag files from the Windows Explorer to the Archive window.
7. Click the **Burn** icon when all of your files have been added.

   If the files do not fit on one disc, File Archive asks you for additional discs.
8. Click **Done** when recording is complete.

Creating an Image File

RecordNow! can take all the files from a CD or DVD, and convert them into a single file called an *image file*. You can use the image file to reproduce the original disc. This is often used when you need to make multiple copies of the same disc.

Saving an Image

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Backup Projects** tab.
3. Select **Save Image**.
4. Insert the source disc into the drive.
5. Click **Browse** to set the destination and name of the image file.
6. Click the **Save** icon to create the image file.

Burning an Image

1. Click **Start**, choose **All Programs**, **Sonic RecordNow!**, and then click **RecordNow!**.
2. Select the **Backup Projects** tab.
3. Select **Burn Image**.
4. Click the **Browse** button to locate your saved image file.
5. Click the **Burn** icon.
6. Insert a blank CD or DVD into the drive.
7. Click **Done** when recording is complete.

Recording Video Files

Video quality depends on the quality of the source files, the PC speed, and its graphics processing ability. Refer to the "Recording VHS Video Files Direct to DVD" section of this guide.

NOTE: Your DVD Writer or CD Writer drive will not copy commercially available DVD movies. Most commercial DVDs are encoded to prevent unauthorised duplication.

Using Disc Labels

WARNING: When labelling your DVDs, do not use sticky labels. They can cause the DVD to play erratically. Instead, write on the DVD with a felt tip pen to label it.

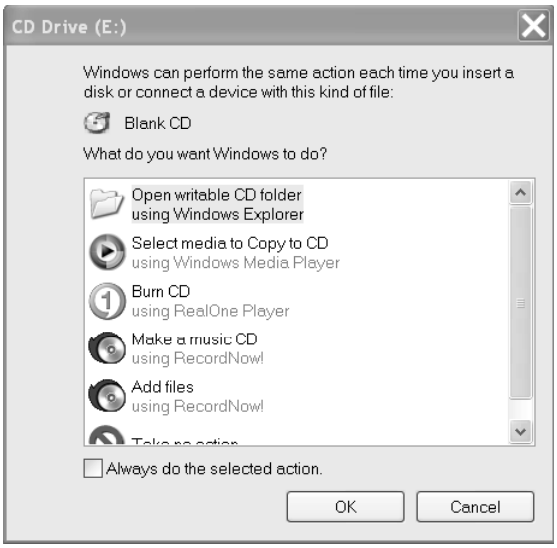
Creating Recovery CDs/DVDs for the PC

For more information about creating Recovery CDs/DVDs, refer to the *Warranty and Support Guide* that came with your PC.

Setting Automatic Recording Options

When you first insert a blank CD into your DVD Writer or CD Writer drive, Microsoft® Windows® XP may give you options for the type of disc you insert.

NOTE: When you insert a blank DVD into your DVD Writer/CD Writer drive, an options window does not appear. You must open the program you want to use with your DVD, and then perform an action.



For example, if you insert a blank CD-RW disc, you see options such as:

- Open writeable CD folder using Windows Explorer.
- Create a disc using RecordNow!.
- Take no action.

The options displayed depend on what software is on the PC.

You can choose to have a specific action occur automatically each time you insert a blank CD by selecting the *Always do the selected action* box.

If you later decide that you want to change the option you have set:

1. Click **Start**.
2. Click **My Computer**.
3. Right-click the **DVD Writer/CD Writer drive** icon (may be labelled DVD/CD-RW) and select **Properties**.
4. Click the **AutoPlay** tab.
5. Click **Select an action to perform**, select an action, and then click **OK**.

   Or

   Click **Prompt me each time to choose an action**, and then click **OK**.

If this window of options does not appear, you can click **Start**, **My Computer**, right-click the **DVD Writer/CD Writer drive** icon (may be labelled DVD/CD-RW), and then select one of the available options.

You can also open a program before you insert a disc. After the program is opened, select an action, and follow the onscreen instructions within the program.

If the option you want is not listed, you can select **Take no action**, and then click **OK**. The window closes, and you can then manually select a different option through the Start menu on the desktop.

Here are some of the other options you can choose to view the files on the disc you inserted:

- Click **Start**, **My Computer**, and then right-click the **DVD Writer/ CD Writer drive** icon, and choose **Explore**.
- Click **Start**, **My Computer**, and then double-click the **DVD Writer/ CD Writer drive** icon.

Using Compatibility Information

An important feature of a DVD Writer/CD Writer drive is its high level of compatibility with other optical drives and CD and DVD players.

- The CDs that you create play in most home and car stereos, and in most computer DVD-ROM and CD-ROM drives.

  NOTE: CD-R discs are compatible with more home and car stereos than CD-RW discs.

- The DVDs that you create are compatible with some DVD video players, and with most computer DVD-ROM drives.

Your DVD Writer/CD Writer drive is able to read from and record to almost every type of optical disc. Writing speed rates for the DVD Writer/CD Writer drive are fast, allowing quick recording times.

Identifying Compatible File Formats

Your DVD Writer/CD Writer drive can read and record the following audio formats:

- WAV, MP3, WMA and CDA for CDs
- WAV, MPEG-1, MPEG-2, WMA and Layer 2 files for DVDs

Your DVD Writer/CD Writer drive can read and record the following video formats:

- MPEG-1 and MPEG-2
- AVI and WMV

Using the Disc Quick Reference Tables

You can use DVD+RW, DVD+R, CD-RW and CD-R discs in the DVD Writer/CD Writer drive.

Using double-layer DVD+R discs

- Can only be written to with a Double-Layer DVD drive (select models only).
- Can't be erased or written to again.
- Holds up to 8.5 GB — the equivalent of 12 CDs.
- Records up to 4 hours of video files, depending on the quality of the recording.
- Can be used to back up your hard disk drive files.

Using DVD+R discs

- Can't be erased or written to again. Some programs, like RecordNow!, allow you to record data in multiple sessions until the disc is full.
- Can't edit a DVD+R that has been recorded as a DVD movie.
- Holds up to 4.7 GB — the equivalent of seven CDs.
- Records up to 2 hours of video files, depending on the quality of the recording.
- Compatible with more DVD drives and players than a DVD+RW disc is.
- Can be used to back up your hard disk drive files.

Using DVD+RW discs

- Can be erased and rewritten.
- Can hold up to 4.7 GB — equivalent of seven CDs.
- Records up to 2 hours of video files, depending on the quality of the recording.
- Can be used to back up hard disk drive files that you can update periodically.

Using CD-R discs

- Can't be erased or written to again. Some programs, like RecordNow!, allow you to record data in multiple sessions until the disc is full.
- Can hold about 80 minutes of music files, or up to 99 tracks.
- Can hold 700 MB of data, depending on the CD.
- Can be used to create storage discs for your hard disk drive files.

Using CD-RW discs

- Can be erased or rewritten.
- Can hold about 80 minutes of music files, or up to 99 tracks.
- Can hold 700 MB of data, depending on the CD.
- Can be used to create storage discs for your hard disk drive files.

Video recording length

Disc type	Video quality setting		
	Good	**Better**	**Best**
8.5 GB Double-Layer DVD+R	325 minutes	217 minutes	108 minutes
4.7 GB DVD+RW, DVD+R	180 minutes	120 minutes	60 minutes
700 MB CD-RW, CD-R	27 minutes	18 minutes	9 minutes
650 MB CD-RW, CD-R	24 minutes	16 minutes	8 minutes

NOTE: CD-R discs are compatible with more home and car stereos than CD-RW discs.

Disc feature and compatibility

Disc	File type	Can be recorded onto	Plays in PC	Plays in home or car stereo	Plays in home DVD player
CD-ROM	Data	No	Yes	No	No
	Music	No	Yes	Yes	Varies by model
CD-R	Data	Yes	Yes	No	No
	MP3 Music	Yes	Yes	Varies by model	Varies by model
CD-RW	Data	Yes	Yes	No	No
	MP3 Music	Yes	Yes	Varies by model	Varies by model
DVD-ROM	Data	No	Yes	No	No
	DVD movie	No	Yes	No	Yes
DVD+R	Data	Yes	Yes	No	No
	DVD movie	Yes	Yes	No	Varies by model
Double-Layer DVD+R	Data	Yes	Varies by model	No	Varies by model
	DVD movie	Yes	Varies by model	No	Varies by model
DVD+RW	Data	Yes	Yes	No	No
	DVD movie	Yes	Yes	No	Varies by model
VCD	DVD movie	No	Yes	No	Varies by model

NOTE: This PC comes with the Double-Layer DVD-Writer drive. It supports single-layer and double-layer DVD media. Double-Layer technology gives you greater capacity, and allows you to store up to 8.5 GB* of data on double-layer DVD+R media.

Double-Layer is a new technology. The Double-Layer media created may not work with some home DVD players and computer DVD-ROM drives.

*GB is defined as 1 billion bytes

For the latest disc compatibility information for your PC, check the following Web site: http://www.hp.com

Optical drive quick reference

Optical drive can	CD-ROM	CD-RW	DVD-ROM	DVD+RW/+R	Double-Layer	Combo CD-RW/ DVD
Read CDs, CD-Rs, and CD-RWs	X	X	X	X	X	X
Read DVDs			X	X	X	X
Read data on a CD	X	X	X	X	X	X
Play music	X	X	X	X	X	X
Record data or music to disc for storage or backup		X		X	X	X
View DVD movies			X	X	X	X
Record DVD movies				X	X	
Play PC games	X	X	X	X	X	X

Using the Software Quick Reference Table

To open the DVD Writer/CD Writer software programs, click **Start** on the taskbar, choose **All Programs**, select the program folder, and then click the program to open the software. Refer to the following table to determine the best programs for the tasks you want to do.

NOTE: You may have a software update CD included with your PC. You may need to install this CD before using the DVD Writer/CD Writer drive. To do this, follow the installation instructions that came with the CD.

Your PC comes with the following software programs. Use this table to find out what you can do within each program.

NOTE: Some programs listed below may not be included with your PC model.

Software	With this program you can
ITunes	• Play music CDs, MP3 and other audio files. • Record music files. • Record a copy of an existing music or data CD to use on the PC. • Organise digital files into a library for recording or listening.
Windows Media Player	• Play music CDs, MP3 and other audio files. • Play DVD movies. (Windows Media Player can play DVDs only if another DVD player program, such as InterVideo WinDVD, is installed.) • Play Windows Movie Maker files. • Record music files. • Organise digital files into a library for recording or listening.
RealOne Player	• Play music CDs, MP3, and other audio files. • Play DVD movies. (RealOne Player can play DVDs only if another DVD player program, such as InterVideo WinDVD, is installed.) • Play video CDs. • Record music files. • Organise digital files into a library for recording or listening.
Windows Movie Maker 2.0	• Import audio, video, and other media files from a videotape, an audiotape, a Web camera, or a television broadcast. • Record audio and video files to create a video project that becomes a Windows Media source file with a .wmv extension. • Edit and preview files. • Send movie in an e-mail or to a Web server. • Add music files (MP3). • Import audio files such as .mp3, .asf or .wma; video files such as .wmv, .asf, .avi or .mpg; or image files such as .jpg or .gif. • Can create AVI and WMV (Windows Media Video) files.
InterVideo WinDVD	• Play DVD movies and video CDs (VCD).

Software	With this program you can
RecordNow! 	• Record data and music files. • Record a copy of an existing music or data CD to use on the PC. • Create customised music CDs from CDs in your collection, or from WAV, MP3 or WMA files. These CDs can be played in your home or car stereo. • Copy and share data files. • Copy short video files. **NOTE:** Video files recorded with RecordNow! can be viewed on a PC but not on home DVD video players.
InterVideo WinDVD Creator 	• Capture digital and analogue video files directly from a digital video (DV) camera, VCR or other analogue capture device. **NOTE:** Your PC may not include an analogue capture device. • Assemble movies by capturing video clips and scenes into a video project. • Edit your movies. Cut scenes, add music and sound effects, still images, text, video transitions and voice-overs. • Preview movies during editing and before recording final files. • Create video files, export them to your hard disk drive or your digital video camera, and then play them on your PC. • Create video files, record them to DVDs and CDs, and then play them on some set-top DVD players. • Record video files to seven different formats.

Creating DVD Movies

Your PC allows you to capture (copy), edit, and record your home movies in four easy steps by using the InterVideo WinDVD Creator® software program (select models only).

Capture: Take videos and pictures from digital camcorders, analogue video devices, and Webcams, and then save them to your hard disk drive.

Edit: Arrange and trim your files. Add titles, transition effects, images and audio.

Add menu: Add a menu with chapters to your DVD.

Make Movie: Finalise your project by burning your movie to a DVD.

For more information on WinDVD Creator, click the **Help** menu in the WinDVD Creator menu bar.

Getting Started

1. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
2. Select one of the menu options:
   - **Capture video into hard disk:** Opens the Capture section for you to capture media.
   - **Create CD/DVD with existing video file:** Brings up the Open window for you to select existing video files.
   - **Record video tape into DVD disc in one step:** Enables you to bypass the hard disk and record straight from your camera to a disc in your DVD drive.
   - **Open existing project:** Brings up the Open window for you to select an existing project.
   - **Create new project:** Opens the Edit section for you to begin creating a new project.

Using the Preview Window

The Preview window is located in the upper-left corner. It behaves differently for each task.

Capture: Displays what your capture device is viewing.

Edit: Plays back the selected video or displays the selected image.

Add Menu: Displays what your menu and buttons look like.

Using the Media Library

The Media Library contains your video clips, images, and audio tracks. To import existing media files from your hard disk or CDs into your Media Library, click the **Drag and Drop** button.

Capture: Located in bottom right corner. Contains your video clips, images and audio tracks.

Edit: Located in upper-right corner. Contains your video clips, images and audio tracks.

Add menu: Located in upper-right corner. Contains menu themes, video backgrounds, audio tracks, images, buttons, chapter layouts and chapter thumbnails.

Using the Storyboard

The Storyboard is located on the bottom of the Edit and Add Menu area. The Storyboard can be displayed in either Menu Picker or Timeline Mode. Use the Storyboard to organise your media, and add special effects such as titles, transition effects, audio tracks and video filters.

Identifying Requirements for Capturing Video

You can copy (capture) video files to your hard disk drive by using the WinDVD Creator program. Among the devices supported by WinDVD Creator are analogue video devices, digital camcorders, and Web cameras. Use your composite or S-video inputs to capture video from a VCR, or an analogue video camera.

To capture video files, you need to:

- Connect your video source device properly.
- Turn your device on, and set it to playback mode.
- Make sure the program you want to use can detect your digital or analogue device. In the WinDVD Creator capture screen, click your input source, click the **wrench** icon, select the **Device Control** tab, and select your source from the **Video Source** drop-down menu.

NOTE: You may need to turn your device off and on again for the program to detect it.

If your PC has multiple video devices connected, they all appear on the Capture screen. Select the video source you would like to use.

Capturing Digital Camcorder Video

1. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
2. Click the **Capture video into hard disk** button.
3. Connect your digital camcorder to your PC.
4. Make sure the output from your digital camcorder appears in the Preview window. If it does not, double-check your connections, and make sure your camera is in Playback mode.
5. Click the **Play** button to preview your video file before you record it.
6. Find your starting point in the video and click the **Pause** button.
7. Click the **Record** button.
8. Enter a file name, click **Save**, and recording begins.
9. Click the **Stop** button to stop capturing your video file. Your video file is processed and automatically saved to the My Videos folder on your hard disk drive. The video clip appears in the Media Library portion of the screen.
10. To play back your captured video, click the file in the Media Library, and click the **Play** button in the Preview window.

Capturing Web Camera Video

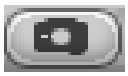
1. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
2. Click the **Capture video into hard disk** button.
3. Connect your Web camera to your PC.
4. Make sure the output from your Web camera appears in the Preview window. If it does not, double-check your connections.
5. Click the **Record** button.
6. Enter a file name, click **Save**, and recording begins.
7. Click the **Stop** button to stop capturing your video file. Your video file is processed and automatically saved to the My Videos folder on your hard disk drive. The video clip appears in the Media Library portion of the screen.
8. To play back your captured video, click the file in the Media Library, and click the **Play** button in the Preview window.

Capturing Analogue Video

1. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
2. Click the **Capture video into hard disk** button.
3. Connect your VCR, television or other input device to your composite or S-video inputs.
4. Click your input source, click the **wrench** icon, and select the **Device Control** tab.
5. Select your composite or S-video source in the **Video Source** drop-down menu. Click **OK**.
6. Click the **Record** button.
7. Enter a file name, click **Save**, and recording begins.
8. Click the **Stop** button to stop capturing your video file. Your video file is processed and automatically saved to the My Videos folder on your hard disk drive. The video clip appears in the Media Library portion of the screen.
9. To play back your captured video, click the file in the Media Library, and click the **Play** button in the Preview window.

Capturing a Still Image

1. Pause your input device on the position for which you would like an image.
2. Click the **Capture Still Image** button under the Preview window.
3. The image is saved to the My Pictures folder on your hard disk drive.



Editing Video Files in WinDVD Creator

After you capture video files, use the WinDVD Creator Edit module to create your customised video file. In the edit mode you can add:

- Video files
- Still images
- Audio and music tracks
- Transition effects
- Title effects
- Video Filters

To edit your video files:

1. If your project is already open, click the **Edit** button and skip to step 4.
2. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.

3 Open a project by either selecting the **Create new project** or **Open existing project** button.

4 If you have already captured video for this project, drag and drop the video files from the Media Library to the Storyboard. If you have video files on your hard disk drive you would like to add to this project, click the **Drag and Drop** button.

5 If you do not like the sequence of the video files, drag and drop the files in the storyboard to change the sequence.

Adding Images

1 Click the **Image Library** icon.

2 Click the **Drag and Drop** button to open the My Pictures folder on your hard disk drive.

3 Select the images from your hard disk which you would like to add to your Image Library and click **Open**.

4 Drag and drop images from the Image Library to your storyboard.

Click the following icons to edit still images and video files.

Storyboard icons	
Group	Groups multiple images into one on the storyboard.
Expand	Expands grouped images so they are all displayed on the storyboard.
Save Movie	Records output directly to a DV camcorder. Or writes output to a file in your selected format.
Edit Clip	Trims a video clip: **1** Double-click a video clip on the Storyboard. **2** Adjust the sliders to cut off video at the beginning or the end.
Merge Clip	Merges a clip with the next clip.
Split Clip	Splits a video clip: **1** Click the video clip which you want to split. **2** Click the **Play** button in the Preview window. **3** Click the **Split Clip** icon at the point of the clip which you to want split.

Adding Audio Effects

1 Click the **Audio Library** icon.

2 Click the **Drag and Drop** button to open the My Music folder on your hard disk drive.

3 Select the audio files from your hard disk which you want to add to your audio library, and click **Open**.

4 Drag and drop the audio files from the Audio Library to the video file of your choice.

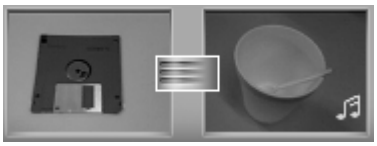
5 A musical note icon appears in the bottom right corner of the video file to which the audio track was assigned.

6 To keep the audio track running for more than one video file, switch from storyboard mode to timeline mode. Drag the music track across more then one video file.

Adding Transition Effects

1 Click the **Transition Effects** icon.

2 Drag and drop a transition effect between the two video files where you would like the effect to appear.



Adding Title Effects

1 Click the **Title Effects** icon.

2 Drag and drop a title effect either in between video files, or to a video file on the Storyboard.

3 Type the text which you would like to appear on your title screen.

4 If you inserted the title effect in between video clips, click on the **Image Setting** icon to adjust the length of time where you want the title clip to appear.

A capital T appears in the bottom right corner of the title clip on the Storyboard.

Adding Video Filters

1 Click the **Video Filters** icon.

2 Drag and drop a video filter to the video of your choice.

Adding a Menu

The Add menu section turns your project interactive. It creates a menu theme and breaks your project into chapters. The menu theme can be your own images and music, or a custom theme that comes with WinDVD Creator.

1. If your project is already open, click the **Add Menu** button.
2. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
3. Select the **Open existing project** button and select your project.
4. Click the **Add Menu** button.
5. Click the media library icons to add a menu theme, chapters, buttons, audio tracks and images to your DVD.
6. Click the storyboard icons to edit the chapters and menu items.

Making a Movie

This is the final step of your DVD project. You select a format, the type of TV system, and volume name.

1. If your project is already open, click the **Make Movie** button and skip to step 5.
2. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
3. Select the **Open existing project** button, and select your project.
4. Click the **Make Movie** button.
5. Insert a blank recordable DVD or CD into your drive.
6. Choose one from each of the following sections (order of selections may differ):

Burn to Disc	Select where you would like the file to be recorded: • **Burn to Disc:** Use this to burn directly to a DVD or CD. • **Write content to hard disk for later burning:** Use this to create the file on your hard disk drive.
Select Device	Select the device that contains the blank recordable DVD or CD.
Burning Speed	Select the speed to use when recording your project.
Format	Select one of the formats to record your project.
TV System	Select between **NTSC** and **PAL** for your TV system. The NTSC format is used in North America, and the PAL format is used in European and Asian countries/regions.
Volume Name of Disc	Enter a Volume name for your disc (optional).

7. Click **Start**.
8. Click **OK**.

Recording VHS Video Files Direct to DVD

To record VHS video files direct to DVDs:

1. Connect your VCR or other analogue video source to your composite or S-Video input.
2. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
3. Select the **Record video tape into DVD disc in one step** button.
4. Insert a blank DVD into your drive.
5. Click the **Capture** button, and select your VCR.
6. Press the **Playback** button on your VCR.
7. Click the **Record** button when the preview window displays what you want to record.

Converting Recorded TV to MPEG-2 Format (Europe Only)

1. If your project is already open, click the **Edit** button and skip to step 4.
2. Click **Start**, choose **All Programs**, **InterVideo WinDVD**, **InterVideo WinDVD Creator**, and then click **InterVideo WinDVD Creator** again.
3. Open a project by either selecting the **Create new project** or **Open existing project** button.
4. Click the **Save Movie** icon and select **Output to File**.
5. Select a **GQ**, **HQ**, **SP**, **LP** or **EP** format, and click **OK**.
6. Enter a file name and click **Save**.

Troubleshooting

Symptom describes the sign or warning message for the type of problem.

Problem identifies one or more reasons why the symptom may have occurred.

Solution describes what you should do to try to solve the problem.

For help on general and miscellaneous problems which you may be experiencing with your PC, refer to the following pages for possible solutions. For more detailed information, press the Help button on your keyboard, or click **Start** on the taskbar, and select **Help and Support**.

To find help for problems with your PC, see the table in this section that describes the symptom, problem and solution for your situation. Look up the description of the symptom or problem, and try the solution listed. The tables appear in this order:

- Audio
- CD-ROM, CD-RW, DVD-ROM or DVD Writer Drive
- Diskette (Floppy) Drive
- Display (Monitor)
- Hard Disk Drive
- Hardware Installation
- Internet Access
- Keyboard and Mouse
- Power
- Memory
- Multi-storage bay
- Miscellaneous

Some of the symptoms listed may not apply to your PC. For problems relating specifically to the monitor or printer, refer to the equipment documentation.

Audio

Symptom	Problem	Solution
No sound is produced.	Volume is muted.	Press the Mute button on the keyboard to see if the mute feature is turned on. *Or* **1** Click **Start**, and then click **Control Panel**. **2** Click **Sounds, Speech, and Audio Devices**, if it is present, and then double-click **Sounds and Audio Devices**. **3** Click the **Mute** tick box to remove the tick from the box.
	Volume is turned down.	Use the keyboard controls to increase the volume.
	Speakers are turned off.	Check whether speakers are turned on.
	Speaker cables are not properly connected.	Turn off your PC, and reconnect the speakers.
	PC is in standby mode.	Press the Standby button (select models only) or press the Esc key on the keyboard to resume from standby mode.
	A passive speaker system is being used.	Replace the speaker system with an active speaker system. Active speakers have a power cable and On button, and connect to the Audio Out (green) connector on the PC.
	Headphones are plugged in.	Unplug the headphones.

CD-ROM, CD-RW, DVD-ROM, or DVD Writer Drive

Symptom	Problem	Solution
CD-ROM, CD-RW, DVD-ROM or DVD+RW/+R drive cannot read a disc or takes too long to start.	Disc is upside down in the drive tray.	Reinsert the disc with the label facing up.
	DVD drive takes longer to start because it has to determine media type being played.	Wait at least 30 seconds to let the DVD drive determine the type of media. If it still does not start, read the other solutions listed in this topic.
	Disc is dirty.	Clean the disc with a CD cleaning kit, available from most PC stores.
	Windows does not detect CD-ROM or DVD-ROM driver.	Driver program may be corrupted. Force the software to reinstall it by doing the following: **1** Click **Start**, and then click **Control Panel**. **2** Click **Performance and Maintenance**, if it is present, and then double-click **System**. **3** Click the **Hardware** tab, and then click the **Device Manager** button. **4** Click the plus sign (**+**) next to the DVD/CD-ROM drives, and select the problem drive. **5** Click the **Action** menu item, and select **Uninstall**. Click **OK**. **6** Restart your PC: Click **Start**, click **Turn Off Computer**, and then click **Restart**.

CD-ROM, CD-RW, DVD-ROM, or DVD Writer Drive (*continued*)

Symptom	Problem	Solution
Cannot remove a CD or DVD disc.	The PC is turned off.	Turn on your PC and press the Eject button to extend the tray.
Cannot create (burn) a disc.	Problem with disc.	• Make sure the label is face up and centered in the tray. • Verify that you are using the correct disc type (media) for the drive. Try a different brand of disc. • Make sure the disc is clean and undamaged. If recording stopped during a recording session, the disc may be damaged; use a different disc. • Use the correct type of disc for the type of files you are recording. When using a CD-R disc, make sure it is blank when recording music, and is blank or appendable (disc with space to add more data files) when recording data. • Verify that you are using the correct disk when making a copy of a disc. RecordNow! can record only to the same disc type as the source. For example, you can record a DVD only to a DVD+R or a DVD+RW disc, and you can record a CD only to a CD-R or a CD-RW disc.
	Problem with drive.	• Make sure the disc is in the correct drive. • Make sure you select the correct drive before recording. RecordNow! selects the first optical drive it finds, but you can select the drive in RecordNow! before you begin recording. • Make sure the recording disc tray is clean and undamaged. • Select a slower write speed for the recording drive, if it is available. Each time you make a recording, RecordNow! selects the optimum recording speed. Refer to the Help menu in the RecordNow! recording program to choose the speed.
	Problem with PC operation.	• RecordNow! does not let you add a track if it exceeds the available space on your disc. You can make space available by removing one or more tracks from the list before recording the files to disc. • Close all software programs and windows before recording. • Make sure you have enough space available on your hard disk drive to store a temporary copy of the content. • If you are on a network, copy the files from a network drive to your hard disk drive first, and then record them to disc. • Enable Direct Memory Access (DMA) on your PC. • Restart the PC and try again.

CD-ROM, CD-RW, DVD-ROM, or DVD Writer Drive (*continued*)

Symptom	Problem	Solution
Cannot add files to my music CD.	RecordNow! creates a closed session music CD.	When recording a music CD, RecordNow! does not allow recording of additional files after the initial recording.
Cannot add data to my DVD.	Wrong recording option being used.	Make sure you set the correct recording option: Insert your data disc, open RecordNow!, click the **Options** icon (wrench), click **Data**, select the multiple session recording options, and then click **OK**.
Cannot play my music CD in my stereo.	Problem with disc.	• Use a CD-R, not a CD-RW disc. • Try a different brand of disc, or check to see if the brand of disc works with your stereo. Refer to the documentation that came with your stereo or player and check the manufacturer's Web site. • Use a CD instead of a DVD. Audio files on a DVD can be played on your PC, but you cannot create a music DVD to be played in a home CD player.
	Problem with file type.	Convert MP3 or WMA audio files to WAV or CDA music files before recording.
Titles of music tracks do not appear on my CD.	Not connected to Internet.	The PC must be connected to the Internet for the artist, title, and track information to appear when playing your music CD in Windows Media Player, or when recording your music CD with RecordNow! Note that RecordNow! does not record the information to disc.
An error message appears when I try to capture video.	Video capture device not selected.	You may need to select the capture device if your PC has both an analogue and a digital video capture device. Refer to the Help menu in the video capturing program to find out how to change the video device selection.
Cannot play my DVD movie on my DVD player.	Movie recorded using wrong file format.	Your DVD player cannot play video files recorded onto the DVD as data files. To play a movie properly, use a video recording program such as WinDVD.
	Problem with recording method.	Video files recorded with RecordNow! can be viewed on a PC but not on a home DVD video player.

Diskette (Floppy) Drive (Select Models Only)

Symptom	Problem	Solution
PC is unable to read the diskette (floppy disk).	A non-formatted diskette has been inserted.	To format the diskette: **1** Click **Start**, and then click **My Computer**. **2** Right-click the **3½ Floppy (A:)** icon. **3** Select **Format**. **4** Select the desired options, and click **Start** to begin formatting the diskette.
	Diskette is damaged.	Use a new diskette.
	Diskette drive has failed.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
Diskette drive activity light stays on.	Diskette is improperly inserted.	Remove the diskette, and reinsert it: Insert the diskette with the round metal disk facing down and the arrow on the top pointing into the drive, and then push the diskette in until it stops.
	Diskette drive is damaged.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
Diskette drive cannot save (write) information to the diskette.	Diskette is full or the file is too big.	Use another diskette or compress the file to reduce its size.
	Diskette is write-protected.	Slide the write-protection tab to the unlocked position on the diskette.
	File Save command was not properly executed.	When saving information to the diskette drive, verify that you are using the correct drive letter.
	Diskette is damaged.	Replace the diskette.
	Diskette is not formatted.	To format the diskette: **1** Click **Start**, and then click **My Computer**. **2** Right-click the **3½ Floppy (A:)** icon. **3** Select **Format**. **4** Select the desired options, and click **Start** to begin formatting the diskette.

Display (Monitor)

NOTE: If you encounter display (monitor) problems, refer to the documentation that came with your monitor, and to the common causes and solutions listed in this table.

Symptom	Problem	Solution
Screen is blank, and monitor power light is not lit.	Monitor power cable is not connected to the monitor or to the wall socket.	Reconnect the power plug on the back of the monitor and on the wall socket.
	Monitor is off (not turned on).	Press the On button on the front of the monitor.
Screen is blank.	Screen saver is enabled.	Press any key, or move the mouse to make the screen display visible again.
	PC is in standby mode.	Press the Standby button (select models only), or press the Esc key on the keyboard to resume from standby mode.
	PC is in hibernation mode or is off.	Press the On button to turn on the PC.
	Monitor connector cable is not properly connected to the back of the PC.	Inspect the monitor video connector for bent pins. If no pins are bent, reconnect the monitor connector cable on the back of the PC.
Images on the screen are too large or too small, or the images are fuzzy.	The screen resolution setting may not be set to your liking, or may not be the best for your monitor.	Adjust the monitor resolution setting in Windows. See your monitor documentation for the best resolution for your monitor.

Hard Disk Drive

Symptom	Problem	Solution
PC seems to be locked up and not responding.	Program in use has stopped responding to commands.	Use the Windows Task Manager to close any programs not responding or to Restart the PC: **1** Press the Ctrl, Alt and Delete keys on the keyboard at the same time. **2** Select the program that is not responding, and click **End Task**. *Or* Click **Shut Down**, and then click **Restart**. If this does not work, press the On button for 5 or more seconds to turn off the PC. Then, press the On button.
Hard disk drive error message displays.	Part of hard disk drive has failed or is about to fail.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.

Hardware Installation

Symptom	Problem	Solution
A new device is not recognised as part of the system.	Device driver is not installed.	Install the device driver from the CD or diskette provided with the device, or download and install the driver from the device manufacturer's Web site. You may need an updated driver for Windows XP. Contact the device vendor directly for an update. For HP peripherals, visit the HP Web site. Refer to the *Warranty and Support Guide* for details.
	Device connector is not seated or connected properly.	Ensure that the device is properly and securely connected and that the pins in the connector are not bent down.
	Cable(s) of new external device are loose, or power cables are unplugged.	Ensure that all cables are properly and securely connected, and that the pins in the cable or connector are not bent.
	Power switch of new device is not turned on.	Turn off the PC, turn on the external device, and then turn on the PC to integrate the device with the PC system.
	When the system advised you of changes to the configuration, you did not accept them.	Restart the PC, and follow the instructions for accepting the changes.
	A Plug and Play card may not automatically configure when added if the default configuration conflicts with other devices.	Deselect the automatic settings in the operating system for the card, and choose a basic configuration that doesn't cause a resource conflict. You can also reconfigure or disable devices to resolve the resource conflict.
New device does not work.	Cannot install new device driver.	You must be logged in as the computer administrator to install or uninstall a device driver. To switch users, click **Start**, click **Log Off**, and then click **Switch User**; choose the computer administrator user. (The computer administrator is usually the user *Owner*.)

Hardware Installation (*continued*)

Symptom	Problem	Solution
New or existing device does not work after installing a new device.	A hardware device conflict exists.	To resolve a device conflict, you may need to disable one of the devices, or uninstall an old device driver: **1** Click **Start** and click **Control Panel**. **2** Click **Performance and Maintenance**, if it is present. **3** Double-click the **System** icon, and select the **Hardware** tab. **4** Click the **Device Manager** button. **5** Click the **+** (**plus**) symbol next to the problem device and check for exclamation marks in a yellow circle near the device icon. The exclamation mark means there is a device conflict or problem with the device. Exclamation marks do not always appear when a device is not working properly. **6** If there is an old or unnecessary device driver listed in the Device Manager, this may be causing the device conflict. To uninstall the old driver for the new device driver to work properly, do the following: Right-click the device, click **Uninstall**, and then click **OK**. **7** Right-click the device, and select **Properties**. **8** If available, click the **Resources** tab to verify that there is a device conflict. **9** Click the **General** tab to see if your device is enabled and working properly. If it is available, click the **Troubleshoot** button, and follow the onscreen instructions in the device troubleshooter wizard. **10** Restart the PC. Click **Start**, click **Turn Off Computer**, and then click **Restart**.

Internet Access

Symptom	Problem	Solution
Cannot connect to the Internet.	Internet Service Provider (ISP) account is not set up properly.	Verify Internet settings, or contact your ISP for assistance.
	Modem is not set up properly.	Reconnect the modem, verifying connections. Note that your PC may also have an Ethernet network interface (also called a network interface card, or NIC) that connects to a LAN (local area network). Although it looks similar to the modem connector, the RJ-45 Ethernet network connector is not the same. Verify that you are using the modem connector. Do not connect a telephone cable to the NIC. Do not plug a network cable into a telephone service line; doing so may damage the NIC.
	Web browser is not set up properly.	Verify that the Web browser is installed and set up to work with your ISP.

Internet Access (*continued*)

Symptom	Problem	Solution
Cannot automatically start Internet programs.	You must log in to your ISP before some programs will start.	Log in to your ISP, and start the desired program.
Internet takes too long to download Web sites.	Modem is not set up properly.	Verify that the correct modem speed and COM port are selected: **1** Click **Start**, and then click **Control Panel**. **2** Click **Printers and Other Hardware**, if it is present. **3** Double-click **Phone and Modem Options**. **4** Select the **Modems** tab, and then click the **Properties** button. **5** In the *Device status* area, verify the modem is working properly. **6** In the *Device usage* area, verify the modem is enabled. **7** If there are further problems, click the **Troubleshoot** button, and follow the onscreen instructions.
The AOL program comes up even when it is not being used.	The PC is still trying to use AOL for Internet access.	You may want to remove the AOL program. To uninstall AOL: **1** Click **Start** on the taskbar. **2** Click **Control Panel**. **3** Double-click **Add or Remove Programs**. **4** Select **America Online**, click **Change/Remove**, and then follow the onscreen instructions. **NOTE:** Removing the AOL program will not cancel your account with AOL.

Keyboard and Mouse

Symptom	Problem	Solution
Keyboard commands and typing are not recognised by the PC.	Keyboard connector is not properly connected.	Turn off the PC by using the mouse, reconnect the keyboard to the back of your PC, and turn on your PC.
	Program in use has stopped responding to commands.	Restart or turn off your PC using the mouse.
	Keyboard is damaged.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
Cursor will not move using the arrow keys on the keypad.	The Num Lock key may be on.	Press the Num Lock key. The Num Lock light should not be on if you want to use the arrow keys in the number keys group.
The keyboard Print button does not work.	Some programs do not recognise the Print button.	Use the Print menu item in the program.
Wireless keyboard does not work after installation or is not detected.	Keyboard batteries are low or empty.	Replace the two AA alkaline batteries in the wireless keyboard; then set the ID channel by pressing the Connect button on the wireless receiver, and then on the keyboard. Refer to the documentation that came with your wireless set.

Keyboard and Mouse (*continued*)

Symptom	Problem	Solution
Mouse does not respond to movement or is too slow.	Mouse connector is not properly plugged into the back of the PC.	Turn off your PC using the keyboard: **1** Press the Ctrl and Esc keys on the keyboard at the same time to display the Start menu. **2** Use the Up arrow or Down arrow key to select **Turn Off Computer**, and then press the Enter key on the keyboard. **3** Use the Up arrow or Down arrow key to select **Turn Off**, and then press the Enter key. After the shutdown is complete, plug the mouse connector into the back of your PC, and turn on your PC.
	Program in use has stopped responding to commands.	Restart your PC by using the keyboard. If possible, save any open files, and close open applications before restarting.
	Surface in use for roller-ball type mouse is too smooth.	Use a mousepad or other rough surface for the mouse.
Mouse moves only vertically or horizontally.	Mouse roller ball is dirty.	Remove roller ball cover from bottom of mouse and clean the ball with a damp, lint-free cloth (not paper).
	Mouse is damaged.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
Mouse does not work after installation or is not detected.	Mouse is not connected properly.	Try unplugging and then reconnecting the mouse cable to your PC.
	Wireless mouse batteries are low or empty.	Replace the two AA alkaline batteries in the mouse; then set the ID channel by pressing the Connect button on the wireless receiver, and then on the mouse. Refer to the documentation that came with your wireless set.
Optical mouse does not track cursor well.	The optical sensor uses the pattern of the surface to track the position of the cursor. Reflective surfaces, grooved surfaces, glass or other see-through surfaces inhibit the ability of the sensor to track the cursor.	Place the mouse on a mousepad or white sheet of paper.
	Mouse sensor is dirty.	Wipe the light sensor lens on the bottom of the mouse with a lint-free cloth (not paper).
Mouse cursor moves too fast.	The wireless mouse moves the cursor more quickly than a standard mouse.	Adjust the mouse speed in Windows.

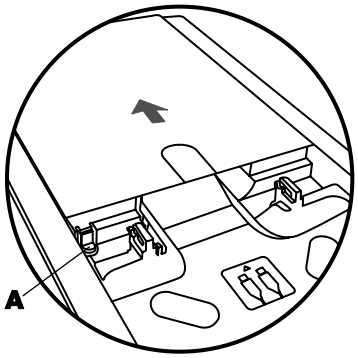
Power

Symptom	Problem	Solution
PC will not turn on or start.	PC is not securely connected to an external power source.	Ensure that cables connecting the PC to the external power source are plugged in properly.
	Green power supply light on back of PC is out.	When the cables connecting the PC to the external power source are plugged in properly, and the wall socket is functioning, the green power supply light should be on; if the light is not on, refer to the *Warranty and Support Guide* to contact Support.
	Monitor is not connected or is not on.	Connect the monitor to the PC, plug it in, and turn it on.
	Line voltage selection switch is not in the proper position for your country/region (115V∿/230V∿).	Set the line voltage selection switch to the correct setting for your country/region, or refer to the *Warranty and Support Guide* to contact Support.
	Wall outlet is defective.	Test the outlet by connecting a different electrical device to the outlet.
	Wrong memory modules were used in an upgrade, or memory modules were installed in the wrong location.	Reinstall the old memory to return your PC to its original state. Refer to the *Upgrading and Servicing Guide* for instructions.
	Hard disk drive is damaged.	Press the Help **?** button on the keyboard to open the Help and Support Center, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
	After an upgrade or repair, the drive power, data or power supply cables may not be properly connected.	Reseat drive power, data, and power supply cables. See the *Upgrading and Servicing Guide* for instructions.
Invalid system disk *Or* *Non-System disk or disk error* message displays.	A diskette has been left in the drive during startup.	When drive activity stops, remove the diskette, and press the spacebar. The PC should start up.
PC appears locked up and won't turn off when the On button is pressed.	PC is not working.	Press and hold the On button until the PC turns off.
PC powered off automatically.	The PC temperature was exceeded.	The PC is in an exceedingly hot environment. Let it cool down. Ensure PC air vents are not blocked, and internal fan is running. Note that your PC may not have an internal fan.
	The PC temperature was exceeded because the PC was functioning with the cover or access panel removed.	Replace cover or access panel, and let the PC cool down before attempting to turn on power to the PC.
	Processor or system fan has failed.	Refer to the *Warranty and Support Guide* to contact Support for replacement details. Note that your PC may not have an internal fan.

Memory

Symptom	Problem	Solution
Insufficient memory message is displayed.	All memory in the PC is being used by open programs, and memory is needed for a desired task.	Close all open programs, and then try desired task again. *Or* Restart your PC: **1** Click the **Start** button. **2** Click **Turn Off Computer**. **3** Select **Restart**.

Multi-storage Bay

Symptom	Problem	Solution
Cannot remove the cables for an external device from the multi-storage bay cable tunnel (select models only).	Cables are caught in the cable tunnel.	Remove the rear top cover: **1** Open the bay cover. Hold the cover on each side near the hinges, and then lift the cover, and slide it toward the back of the chassis. Gently lift it off. **2** Press tab (**A**) inside the bay and slide the top rear cover toward the back of the chassis; then lift off the cover. 

Miscellaneous

Symptom	Problem	Solution
PC date and time display is incorrect.	RTC (real-time clock) battery may need to be replaced. Battery life is approximately 3–5 years.	First, reset the date and time in your operating system by using the Control Panel. If the problem persists, replace the battery. See the *Upgrading and Servicing Guide* for instructions, or refer to the *Warranty and Support Guide* to contact Support for replacement details.
Printer has problems.	Printer will not print correctly or at all.	If you encounter printer problems, refer to the documentation that came with your printer.

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